

BAA/v
9.25

13.50



LOG BOOK.

VOYAGES OF THE

COMMANDED BY



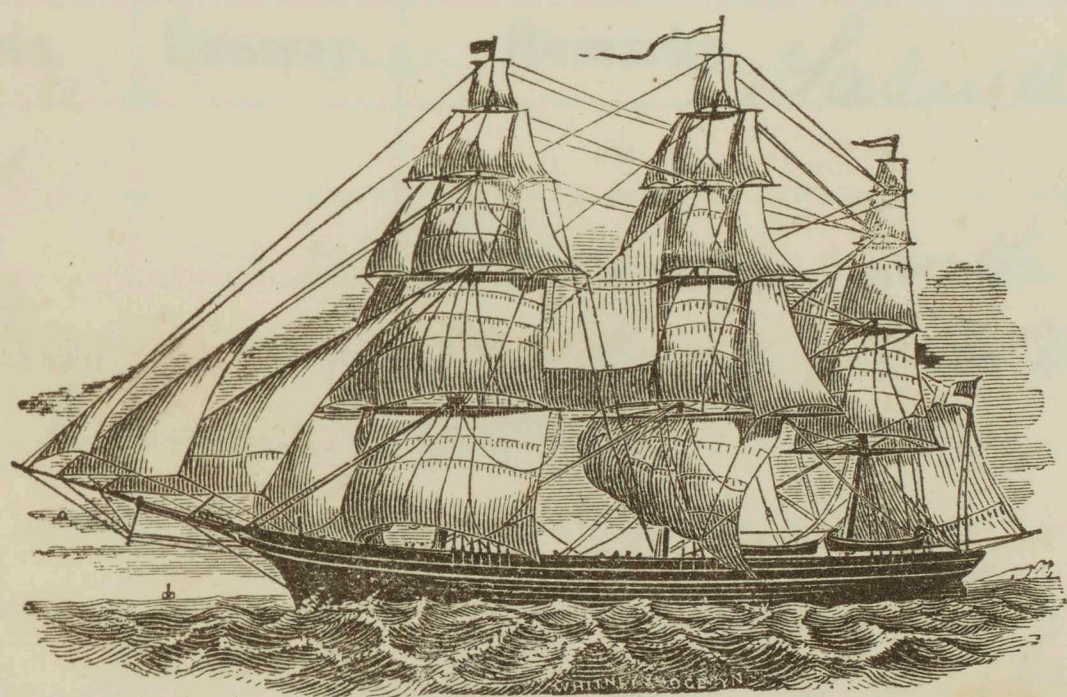
LOG BOOK.

VOYAGES OF THE

Brig A J Ross.

COMMANDED BY

Capt Benj Lothrop



Suppression of Urine in Horses

Powdered Bicarbonate of Potass 2 ounces
Fluid Extract of Buchu 2 do
Fluid Extract of Belladonna 1 do
Water one Pint
Mix and give one ounce twice a Day

From

Boston.

towards

St. Juan. P.R.

day of

18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,
1			Harbour	log	laying in Boston	
2						
3			Wed	May	17 th	Came onboard as mate today
4						fine weather with wind to the
5						southward Stevedores taking in
6						cargo 3 of the men and Steward
7						onboard
8			Thursday	..	18 th	finished loading this A M
9						at 9 ^{am} commenced raining and
10						rained hard throughout the day
11						ready for sea
12						
1			Friday	..	19 th	Comes in with fine weather and
2						light air from the westward
3						at 7.30 ^{am} hauled down to the
4						end of the wharf at 9 ^{am}
5						made all sail and started
6						down harbour at 10.30 ^{am}
7						passed Boston light light airs
8						and calms at 12 noon off
9						Heardings ledge this day ends
10						with 12 hours to commence
11						Sea time
12						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Saturday day of May 20 th 1876
1	2		S E by E & E	light		
2	2			and		Commences with light airs and
3	2			baffling		baffling, weather fine and
4	2					clear
5	1					
6	1			with		
7	1		E S E			at 3 ^{pm} Minots light tower
8	1					bearing by Compass W N W distant
9	1					6 miles
10	1			calms		
11	1					at 10 ^{pm} made Cape Cod light
12	1					Bearing S E by E —
1	1					
2	2					
3	2					light breezes and fine
4	3					
5	3		S E by E			at 12 noon Highland light
6	3					bore by Compass W. distant
7	4					4 miles
8	4					
9	4		S E			
10	4					
11	3					
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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3

From

Boston

towards

St Juan P R

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday day of May 21 1821
1						
2						
3						Commences with light breeze
4						and fine clear weather
5						all sail set
6						
7						
8						
9						
10						
11	3		SE by E	SW by S		at 10 ^{pm} lost sight of Highland
12	3					light bearing by compass N W
1	3					distant 22 miles from which
2	3					I take my departure
3	3					Middle part overcast
4	3					
5	3					
6	3					
7	4					End light breeze and dark
8	4					gloomy looking weather all
9	4		SE by S	SS W		sail set by the wind
10	4					
11	4					No Obs today
12	4					

Course.

Distance.

Diff. of Lat.

Departure.

Lat. by D. R.

Lat. by Ob.

Variation.

Diff. of Lon.

Lon. in.

Lon. by Ob.

41. 10 N

12° W

69. 02 W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of May 22 18
1	4		SE by E	SW by W		
2	4					Commences light breeze and
3	4					cloudy weather all sail by
4	4					the wind on Starboard tack
5	4					
6	5		SW by W	South		at 5:30 ^{pm} tacked ship
7	5					to SW by W
8	4					
9	5					at 10 fresh breeze and thick
10	5					took in light sails
11	5					
12	5					at 12 tacked to SE
1	5		SE	SS W		
2	5					at 9 ^{am} set outerjib gafftopsail
3	5					and M I Mast staysail
4	5					
5	5					
6	5					End fresh breeze and Downcast
7	4					
8	4					by poor Obs found her
9	4					in Lat 40. 23 N
10	4					Lon 67. 43 W
11	5					
12	5					

Course.

Distance.

Diff. of Lat.

Departure.

Lat. by D. R.

Lat. by Ob.

Variation.

Diff. of Lon.

Lon. in.

Lon. by Ob.

40. 10

68. 31

4

From

Boston

towards

St. Juan. P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of May 23 1876
1	3		SE $\frac{3}{4}$ S	SSW		
2	3					Comences with fresh breezes
3	3					and sky Overcast
4	3		1142	1142		at 6 pm took in light sails
5	3		60			
6	4		26520	688-20		
7	4			SW by S		
8	4					
9	4			66		
10	3					Middle part squally
11	3					took in flying jib and
12	3					top gallant sail
1	3					
2	3					
3	4		5280	68520/1		at 3 am weather looking better
4	4			5280		set T & S. and flying jib
5	4			15720		
6	4					
7	4					Ends fresh breezes and hazy
8	4					weather
9	4					
10	4					
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
		78	71.	88. 03	89. 03 N	120 W	93.	66. 35	66. 35 W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wednesday day of May 24 1876
1	4		SE by S	SW by W		
2	4					Comences with fresh breezes
3	4					and hazy weather
4	4					
5	3					
6	3					
7	4					at 8 pm heavy rain squall
8	4		SE	SW		with wind shifting to the
9	3					ward took in everything
10	3					by topsails and foresail
11	3		South	North		
12	3					
1	3					
2	3					at 4 am moderating set
3	3					top gallant sail at 6 am
4	3					set fore royal and middle
5	3					stay sails
6	3					
7	3					
8	3					End fresh breezes and cloudy
9	3					No Obs. today
10	3					
11	3					
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
5	106	93	50	87. 30		10 W	10. 04	64. 31 W	

From

Boston

towards

St. John's P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Thursday day of May 23- 18
1	5		$1\frac{1}{2}$ E	N by W		Comes in with fresh breeze and cloudy weather
2	5					
3	5					
4	5					
5	6					all drawing sail set
6	6			N by W		
7	7					
8	7					
9	7					Middle part the same
10	6					
11	6					
12	6					
1	6					Ends gentle breezes and fine clear weather
2	6					
3	6					
4	6					
5	6			N by W		Pumps Attended
6	6					
7	6					
8	5					
9	5					Making no water
10	4					
11	4					
12	3					

Distance Course.	Course Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
140	N by E $\frac{1}{2}$ E	124	37	33.26	33.19	10° W	47	63.58	63.40

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Friday day of May 26th 18
1	4		$1\frac{1}{2}$ E	N by W		Commence with gentle breezes and fine clear weather all drawing sail set
2	4					
3	4					
4	3					
5	2					Middle part light wind and fine
6	2					
7	2					
8	2					
9	2					Ends the same
10	2					
11	2					
12	2					
1	2					find some current to the westward
2	2					
3	2					
4	2					
5	2					Pumps Attended
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
		60	11	34.19	34.19	80° W	146	63.26	63.45

From

Boston

towards

St. John's P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Saturday day of May 27 th 1876
1	2		S $\frac{1}{2}$ E	North		Commence with light air and fine clear weather all sail set.
2	2					
3	2					
4	2					
5	1		SSE	SSE		
6	1					Middle part light wind from Eastward and cloudy
7	2					
8	2					
9	1					
10	1					
11	2					End gentle breeze and overcast.
12	2					
1	3		SSE			
2	3					
3	3					
4	3					at 12 noon tacked ship to East and took in royal and outer jib
5	3					
6	4					
7	4					
8	4					
9	3					So ends
10	3					
11	3					
12	3					

8 days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
		49	82	33.30	33.38N 80W		39	64.24	64.20W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday day of May 28 th 1876
1	3		East	S by SE		Commence with gentle breeze and S by overcast.
2	3					
3	3					
4	3					
5	3					
6	4					Middle part clear
7	4					
8	4					
9	4					
10	4					
11	4					End light breeze and fine one big in sight.
12	5					
1	5					
2	4					
3	4					
4	4					Standing SE
5	4					
6	4					
7	3					
8	3					
9	3					Pump Attended
10	3					
11	3					
12	3					

Making very little water

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 85° E	85	8	84	33.41N	33.45	80W	93	62.47	62.48W

From

Boston

towards

St. John's P.R.

Remarks,

Monday day of May 29 18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks.
1	3		SE	SW		Comences with light breezes and fine clear weather all sail by the wind
2	3					
3	3					
4	3					
5	4					
6	4					
7	3					
8	3					
9	4					
10	3					
11	4					
12	3					
1	4					Middle part the same at 9 am spoke the English brig Clyde for London crew employed in scrubbing ship Ends fine and clear Pumps Attended
2	3					
3	4					
4	3					
5	4					
6	3					
7	4					
8	3					
9	4					
10	3					
11	4					
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					33.12 N			61.00 W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks.
1	2		SE by E	South		Comences fine and clear all sail set at 5 pm tacked to SW by W Middle part rainy took in all light sails at 4 am set top gallant sail Ends fresh breezes and hazy cloudy weather
2	3					
3	3					
4	3					
5	3					
6	3		SW by W			
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					
1	3					at 4 am set top gallant sail Ends fresh breezes and hazy cloudy weather
2	3					
3	3					
4	3					
5	3		SE by E			
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					32.47			60.07 W	

From

Boston

towards

St. John's P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of
1	3		E by E	South		Commence with cloudy weather and fresh breezes from South	Wed May 31 st 1876
2	4						
3	3						
4	4						
5	3		W by W			at 5 ^{pm} Tacked ship to W by W	
6	4						
7	3						
8	4						
9	4		W by W			Middle part frequent rains squalls	
10	4						
11	4						
12	4					at 2 ^{am} took topgallant sail and flying jib	
1	4						
2	4						
3	4						
4	4					at 5 ^{am} fresh gales and rainy with heavy sea making	
5	4					from the Southward	
6	4					took in Middle staysail	
7	4					at 11.30 ^{am} gale increasing	
8	4					took in ruppertop sail and jib	
9	4					and reefed the mainsail	
10	4					ends fresh gales and rainy	
11	4					Pumps carefully attended	
12	4						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				32.02 ^N		80 ^N		60.32 ^N	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of
1	2		E by E	South	8 ^{pm}	Commence with heavy gales from the South and heavy sea	Thursday May 1 st 1876
2	2						
3	2					at 12.30 ^{pm} gale increasing fast	
4	2					took in foresail and closed reefed the mainstaysail and mainsail	
5	2					and wore ship to E by E	
6	2					shipping much water and rolling and straining badly	
7	2					at 4 ^{pm} furlled the lower topsail	
8	2					maindeck being constantly flooded with water	
9	2						
10	2						
11	2						
12	2						
1	2					Middle part heavy gales and rainy	
2	2						
3	2						
4	2						
5	2					ends heavy gale and very high sea ship rolling	
6	2					sails under	
7	2						
8	2						
9	2					Pumps carefully attended	
10	2						
11	2						
12	2						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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NE 48 miles 40 40 32.42 32.30^N/N^N 47 60.05^N (rolls)

From

Boston

towards

St. John's P. M.

Remarks,

day of

Friday June 2^d 18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,
1	1	3-	ESE	South	4/10	Commences with strong gale and rainy
2	1	3-				
3	1	3-				
4	1	3-				
5	1	3-				Have it on starboard tack
6	1	3-				
7	1	3-				
8	1	3-				
9	1	3-				
10	2					at 10 pm gale moderating
11	2					set lower topsail and fore sail
12	2					
1	2					
2	2					
3	2					at 8 am set jib upper topsail and one reef out of main
4	2					
5	2					
6	3		SW 1/4 N		1/10	
7	3					End fresh gale from SSe and Bouldy weather
8	3					
9	4					
10	4					Pumps Attended
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					32. 44 N			60. 10 W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,
1	3		SW	SE	1/10	Commences with fresh gale and cloudy
2	3					
3	3					
4	3					
5	3					at 2 pm carried away one shroud of main rigging got on & prevented
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					Middle part rainy
12	3					
1	3					
2	3					
3	3					at 11 am shook out all reefs weather clearing a little
4	3					
5	3					
6	3					
7	3					Ends fresh breezes and passing rain clouds
8	3					
9	3					
10	3					
11	3					
12	3					Pumps Attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				32. 10	32. 07 N			61. 25	61. 15 W

From

Boston

towards

St. John's P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	1876
1	3		SW $\frac{3}{4}$ W	South			Sunday	June 4th
2	3							
3	3					Commences fresh breeze and		
4	3					raining		
5	3							
6	3							
7	3					at 4 P.M. set top gallant sail		
8	3					and flying jib at 12 M made		
9	3					all sail		
10	3							
11	3					Moderate and fine		
12	3							
1	3							
2	3					at 7 A.M. tacked ship to S by E		
3	3							
4	3							
5	3							
6	3							
7	3					Ends fine and Moderate		
8	3		S by E					
9	3							
10	3							
11	3							
12	3							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SW	78	20.9	30.9	31.17 N	31.17 N	90 W	3.9	62.14	62.17 W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	1876
1	2		E S E	South			Monday	June 5th
2	2					Commence with Moderate		
3	2					and fine weather		
4	2							
5	2					at 2 P.M. saw a schooner		
6	2					on starboard tack		
7	2							
8	2							
9	2							
10	2					at 11 P.M. tacked ship to		
11	2					SW		
12	3		SW	S S E		all sail set		
1	3							
2	3							
3	3							
4	3							
5	3					End fresh breeze and		
6	3					passing clouds		
7	3							
8	4					Crew employed in various duties		
9	4					Pumps attended		
10	4							
11	4							
12	4							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SW	88	2	2	30.33	30.38 N	1/4 W	4	62.21	62.38

From

Boston

towards

St. John, N.B.

Remarks,

Tuesday

day of

June 6th 18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.
1	4		W by S S by S	S by S	
2	4				
3	4				
4	4				
5	4				
6	4				
7	4				
8	4				
9	3				
10	3				
11	3				
12	3				
1	3		S by S	S by E	
2	3				
3	4				
4	4				
5	4				
6	4				
7	4				
8	4				
9	4				
10	4				
11	4				
12	4				

Commence with gentle breeze
and fine clear weather
all sail by the wind

Middle part the same

End gentle breezes and fine
Crew painting main deck
Pumps Attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
		97	40	28. 56	28. 58 N		46	68. 19	68. 33

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wednesday day of June 7 th 18
1	3		E by S	S by E		Commence with gentle breezes and fine clear weather all sail by the wind
2	3					
3	3					
4	3					
5	3					
6	3					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4		S by S	S by E		At 3 ^{pm} saw a Barque standing to the NW
2	4					
3	4					
4	4					
5	4					
6	3					
7	3					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4		E by S	S by E		End fine and clear Pumps Attended Nothing but head winds hard luck
2	4					
3	4					
4	4					
5	4					
6	3					
7	3					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				28. 26	28. 24		22	68. 10	68. 38 N

From

Boston

towards

St. John's P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Thursday day of June 8 th 1876
1	3		Sby S	Sby E		Comes in with light winds from the South and fine weather all sail set
2	3					
3	3					
4	3					
5	3					
6	3					
7	3		S by W			Middle part the same
8	3					
9	3					
10	3					
11	3					
12	3					
1	3					End with light rain squalls
2	3					
3	3					
4	3					
5	3					
6	3					
7	3		S by E	South		
8	3					
9	3					
10	4					
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
		37	1	27.48	27.34	40 W	1 $\frac{1}{2}$ W	63.39	63.46 W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Friday day of June 9 th 1876
1	2		S by W			Throughout these 24 hours light air and calms all sail set.
2	2					
3	1					
4	1					
5	0					
6	0					
7	0					South East
8	0					
9	0					
10	1					
11	1					
12	1					
1	1					
2	1					
3	2		South East	East		
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				27.34					63.47

From

Boston

towards

St. John's, P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Saturday day of June 10 th 18
1	4		South	ESE		
2	4					
3	4					Commences with light breeze
4	4					and fine weather
5	4					
6	4					
7	4					at 3 P.M. squally took in
8	4					royal and outer jib
9	4					
10	4					
11	4					
12	4					
1	4		$S\frac{1}{2}E$	East		Middle part rainy and
2	4					squally commencing the trade
3	4					
4	4					
5	4					
6	4					
7	4					Ends fresh breeze and
8	4					rainy and squally
9	4					
10	4					
11	4					
12	4					

No Obs. today

Pumps attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
		94	0	26.00N	No Obs.	0	0	63.47	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday day of June 11 th 18
1	6		$S\frac{1}{2}E$	East		
2	6					Commences with fresh trade
3	6					winds and frequent
4	6					rain squalls
5	6					
6	6					
7	6					
8	6					
9	7					
10	7					Middle part the same
11	7					
12	7					
1	6					
2	6					
3	6					
4	6					Forenoon weather more fine
5	6					set all light sails
6	6					
7	6					
8	6					Ends fine and clear
9	7					
10	7					
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
$S\frac{1}{2}W$	130	130	0	23.30	23.30N	$20^{\circ}W$	0	63.47	64.17N

From

Boston

towards

St. Juan P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Monday	day of	June 12	1876
1	5		S 1/2 E	E S E	1/2 pt.					
2	5									
3	5									
4	5									
5	5									
6	5									
7	5									
8	5									
9	5									
10	5									
11	5									
12	5									
1	5									
2	5									
3	5									
4	5									
5	5									
6	5									
7	5									
8	5									
9	5									
10	5									
11	5									
12	5									

Commences with fresh trade
and fine

Ends. the same

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					21. 80				64. 30

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Tuesday	day of	June 13th	1876
1	5		S by W	E S E						
2	5									
3	5									
4	5									
5	5									
6	5									
7	5									
8	5									
9	5									
10	5									
11	5	5								
12	5	5								
1	5	5								
2	5	5								
3	5	5								
4	5	5								
5	5	5								
6	5	5								
7	5									
8	5									
9	5									
10	5									
11	5									
12	5									

Throughout these 24 hours
gentle trade winds and
fine clear weather

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					19. 33 N				65. 08 N

From

Boston

towards

S. Juan P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wednesday day of June 14 th 18
1	6		S by N $\frac{1}{2}$ W	E by S		Commences with fresh trade winds and fine weather all sail set
2	6					
3	6					
4	6					
5	6					
6	6					
7	6		S W			
8	6					
9	6					
10	6					
11	6					
12	6					
1	6		S by S			At 2 ^{am} sighted land on Starboard bow at 3 ^{am} made it out East End of Porto Rico at 8 ^{am} made S. Juan at 12.30 ^{am} took a pilot and came in at 12.30 anchored with 15 fathoms chain on port anchor furlled the sails and discharged one lighter of ice Ends fine with strong trade winds Ends with 36 hours to commence harbor logg
2	6					
3	6					
4	6					
5	6					
6	6					
7	6		E by N			
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.

From

Harbour log

laying in
towards

St. Johns. P.R.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2			Thursday	June	15	Fresh trades wind and squally		
3						hailed into the wharf and		
4						rigged in jibboom Holiday		
5						ashore		
6								
7			Friday	"	16 th	Commences fine with fresh trade		
8						winds Crew employed discharging		
9						cargo as per Cargo book		
10						Ends fine and clear		
11								
12			Saturday	"	17 th	Weather fine and clear		
1						Wind P.S. & Crew employed		
2						in Discharging cargo as		
3						per Cargo book		
4								
5			Sunday	"	18 th	Weather fine Wind East.		
6								
7								
8						Weather squally Finished		
9			Monday	"	19	Discharging rice to day		
10						and Discharged 100 bbls		
11						slow		
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2			Tuesday	June	20 th	Weather fine Wind East.		
3						Crew employed in Discharging		
4						two men locked up in jail		
5						released at night 2 men employed		
6						in there place at \$2.00 per day		
7			Wed	"	21 st	Weather fine Wind E.S.E.		
8						finished Discharging cargo		
9								
10			Thurs	"	22 ^d	at 6 am hauled out into		
11						the stream and anchored		
12						with 15 fathoms chain on		
1						starboard anchor fresh		
2						trade wind from the		
3						Eastward parted around		
4						outside		
5								
6			Friday	"	23 th	Weather fine Crew employed		
7						in repairing foresail		
8								
9								
10			Saturday	"	24 th	Weather fine with fresh trade		
11						wind finished foreails and		
12						bent it scrapping booms		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

Harbor log

laying in
towards

St. John's P.R.

day of

18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Sunday June	June	25 th	first part of the day squally and rainy last part fine and clear with steady trade wind		
2								
3								
4								
5								
6			Monday	"	26 th	Weather squally with rain crew employed in scraping		
7								
8								
9			Tues	"	27 th	Weather fine dried the sail and scraping down		
10								
11								
12			Wed	"	28 th	Fresh trade winds and frequent squalls		
1								
2								
3			Thursday	"	29 th	Fresh trades and squally in the morning hauled the Brig up to the upper end of the harbor and rigged four jibboom		
4								
5								
6			Friday	"	30 th	Strong breezes and squally		
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Saturday July	July	1 st	Throughout the day strong breezes and squally hauled into Latemooke Wharf and discharged all of our powder at night frequent heavy thunder showers		
2								
3								
4								
5								
6			Sunday	"	2 ^d	Fine and clear with very strong trade winds		
7								
8								
9			Monday	"	3 rd	Squally and rainy clearing up the whole for cargo		
10								
11								
12			Tuesday	"	4 th 1876.	fresh trade winds with frequent rain squalls Rode 34 barks of sugar took them in and stored them		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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K.	Courses.	Winds.	Lee

N. Johns
day of 18

[illegible][illegible]

From

towards

Arecibo

New York

Remarks,

Thursday day of July 13th 18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,
1						
2						
3						
4	7		NW	ESE		Comes in with fresh trade winds from ESE and clear at 3 ^{pm} hove up anchor and made sail for N.Y. and took my departure from Arecibo. Steering NW out of the Roads of Arecibo
5	7					
6	7					
7	7					
8	6					
9	6					
10	6					
11	6					
12	6		N by NW			
1	6					
2	6					
3	6					
4	6					Middle part fresh trades and passing clouds
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	120 Miles				20. 44N			68. 58	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	144	2. 13	5. 9	22. 52N	22. 54N	0°	19	68. 49	68. 50W

From

Arecibo

towards

New York

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, <i>Sat</i>	day of <i>July 15th 1876</i>
1	6		N by W $\frac{1}{2}$ W	East			
2	6						
3	6						
4	5						
5	4						
6	4					Throughout these 24 hours light trade winds and fine weather all sail set At 3 ^{am} passed a schooner bound to the Howard painting ship	
7	4						
8	4						
9	4						
10	4						
11	4						
12	4						
1	4						
2	4						
3	4						
4	4						
5	4						
6	4						
7	4						
8	4						
9	4						
10	4						
11	4						
12	4						

Pumps Attended every
2 hours

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					24. 47N				69. 36 W

H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, <i>Sunday</i>	day of <i>July 16th 1876</i>
1	4		N by W $\frac{1}{2}$ W	baffling from E & E			
2	4					Comes in with light trade wind and fine clear weather all sail set Employed in painting ship	
3	3						
4	3						
5	3						
6	3						
7	3						
8	3						
9	3						
10	3						
11	3						
12	3						
1	3					Middle part fine Ends fine and clear Pumps Attended	
2	3						
3	3						
4	3						
5	3						
6	3						
7	3						
8	3						
9	3						
10	3						
11	3						
12	3						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 19° W	75	20	21	25. 58N	26. 08N	0	24	70. 00 W	70. 00 W

From

Anecibo

towards

New York

Remarks,

Monday day of July 17th 18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.
1	2		Nby N $\frac{1}{2}$ W	baffling	
2	2				
3	2				
4	2				
5	2				
6	2			from	
7	2				
8	2				
9	2				
10	2				
11	2			NE	
12	2				
1	2				
2	2				
3	2				
4	2				
5	2			to	
6	2				
7	2				
8	2				
9	2				
10	2			South	
11	2				
12	2				

light baffling wind
and fine clear weather

all sail set

Pumps Attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
		43.9	13.9	26.49	26.48 $\frac{1}{4}$		13-	70.19	70.24 $\frac{1}{2}$

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	July 18 th 18
1	2		Nby W	baffling				
2	2							
3	2							
4	2							
5	2			from				
6	2							
7	2							
8	2							
9	2							
10	2							
11	3			East.				
12	3							
1	3							
2	3							
3	3							
4	3			to				
5	3							
6	2							
7	2			SSW				
8	2							
9	2							
10	2							
11	2							
12	2							

Commences with light baffling
airs from the Eastward
all drawing sail set.

Endl. with light breezes
from E N E

Pumps Attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N $\frac{1}{8}$ ° W	5.8	52.6	1.6	27.41	27.43 $\frac{1}{2}$	No Var	18	70.42	70.44 $\frac{1}{2}$

From

Arecibo

towards

New York

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, <i>Wed</i>	day of <i>July 19th 1876</i>
1	2		<i>N by W</i>				
2	2						
3	2			<i>East</i>		<i>Commence with light wind</i>	
4	3					<i>and fine weather all</i>	
5	3					<i>sail set.</i>	
6	3						
7	3						
8	3						
9	2						
10	2						
11	2					<i>Middle part squally</i>	
12	3						
1	3						
2	3						
3	3						
4	2		<i>N by W</i>	<i>N E</i>			
5	3						
6	2					<i>End. Fine with light</i>	
7	2					<i>airs from N E</i>	
8	2						
9	2						
10	2						
11	2						
12	2						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					<i>28.41 N</i>				<i>71.12 W</i>

H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, <i>Thursday</i>	day of <i>July 20th 1876</i>
1	2		<i>N by W</i>	<i>baffling</i>			
2	2						
3	2					<i>Comes in with light breeze</i>	
4	2					<i>and fine all sail set.</i>	
5	2			<i>and</i>			
6	2						
7	2						
8	2			<i>squally</i>			
9	2						
10	3					<i>Middle part squally</i>	
11	3			<i>from</i>			
12	4						
1	3						
2	3						
3	3			<i>North</i>			
4	3					<i>End. the same</i>	
5	3						
6	2			<i>to</i>			
7	2					<i>Pumps attended</i>	
8	2			<i>E N E</i>			
9	2						
10	2						
11	2						
12	2						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					<i>28.16</i>				<i>72.12 W</i>

From

towards

Anacibo

New York

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Friday	day of	July 21 st 18
1	2		Nby W	from		Comes in with light breeze from NE and fine all sail set.			
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2			NE					
9	2								
10	2					Middle part squally with rain			
11	2								
12	2								
1	2								
2	2			Li					
3	2								
4	2								
5	2					Eggs light breeze from SW and fine			
6	2								
7	2								
8	3			SW					
9	3					Pumps Attended			
10	3								
11	3								
12	3								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				30.04	30.06			72.38	72.40

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Saturday	day of	July 22 ^d 1876
1	3		Nby W	Sby E		Commences with light breeze and fine weather all drawing sail set.			
2	3								
3	3								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	5					Middle part squally			
11	5								
12	5								
1	5								
2	5			SSW					
3	4								
4	4								
5	3					Eggs fine and clear Engaged in scraping down masts			
6	3								
7	5								
8	5								
9	5								
10	4								
11	4								
12	4								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	95	92	12	31.38	31.33	No Var	14	72.54	72.56

From

Acicibo

towards

New York

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday day of July 23 ^d 1876
1	4		Nby W	SW		
2	3					
3	3					
4	3			and		Comences with gentle breezes
5	3					from SW and fine weather
6	4					all drawing sail set
7	4			baffling		
8	4					
9	5					
10	5					
11	5			li		
12	6					Middle part squally with rain
1	6					took in light sails
2	6			West		
3	6					
4	6					
5	6					at 6 ^{am} passed a barge
6	6					steering ENE
7	6					
8	6					End. fresh breeze and passing
9	6			SW		clouds.
10	6					
11	6					Pumps Attended
12	6					11 days. Out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					33. 22 N				78. 32 W

H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of July 24 th 1876
1	6		Nby W	SW		
2	6					Comes in with fresh breezes and
3	6					passing clouds at 3 ^{pm} wind
4	7					blowing up a gale took in all
5	7					light sails at 6 ^{pm} heavy
6	7					squall from SW took in Main
7	6					foreail upper topsail and reefed
8	6					Main staysail from 8 ^{pm} li
9	4		Nby E	Sby W		12 constant lightning and
10	4					rain with heavy puff. of
11	4					wind from SW running off
12	4					before the wind with a
1	4					heavy sea rolling very heavy
2	4					and shipping large quantities
3	4			SW		of water at 4 ^{am} wind came
4	4					out from WNW in a heavy
5	3					squall at 3 ^{pm} set middle
6	0					staysail and jib at 8 ^{am}
7	0					set upper topsail and topgallant
8	0					sail
9	2		Nby W			End. squally and rainy
10	3					with thunder and lightning
11	3					from all quarters
12	4					No Ob. Pumps Attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				35.00 N				78. 28 W	

From

Anacibo

towards

New Park

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of July 23 rd 18
1	2		North	SW		Commence with light breeze and heavy squall from all sides at 12 ^{am} took in Main sail
2	2					
3	2					
4	0					
5	1					
6	0					
7	0					at 10 ^{pm} thick and rainy from NE and blowing up a gale hove to under lower topsail, Main staysail and fore topmast stay set
8	2					
9	3					
10	3					
11	3					
12	0		up by N NE			
1	0					at 6 ^{am} Moderate and weather clearing Made sail
2	0					
3	1					
4	1		off			
5	2					
6	2					
7	2		NNE			End. brisk breeze from the Eastward and rainy no Obs. today
8	2					
9	2					
10	2		NW			
11	3		North	E NE		
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				33. 40 N				73. 30 W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wednesday day of July 26 th 18
1	2		N by N	East		Commences with light breezes from the Eastward and Rainy
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					all sail set
8	2					
9	3					
10	3					
11	3			SE		
12	3					Middle part fine and cloudy
1	3					
2	3					
3	3					
4	3					
5	3					
6	3					End light winds from NE and fine weather. got an Obs. and find her in
7	3					
8	3					
9	2		NWN	NE		
10	2					
11	2					
12	2					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.

From

Anacibo

towards

New York

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Thursday day of July 27 th 1876
1	2		WN	WNW		Throughout these 24 hours light air from the NE and fine clear weather all sail set by the wind on starboard track
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					at 3 PM spoke the whaling schooner Clara to Sparks "Exchanged Lon" found 40 miles difference
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2		WNW	NE		
11	2					
12	2					

Pump Attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					37.23			74.30W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Friday day of July 28 th 1876
1	2		Nby E	East		Comes in with light winds and fine weather all sail set
2	2					
3	2					
4	2					
5	2					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	4					
1	4					Ends fine and hazy Wind SW
2	4					
3	4					
4	4					
5	4					
6	5					
7	5		South	Sby W		
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				38.33	38.37			74.00	

From

Arecibo

towards

New York

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Saturday day of July 29 th 18 th
1	6		North	SSW		
2	6					Commencees with fine weather
3	6					and fresh breeze from SSW
4	6					
5	6					at 4 ^{pm} took a pilot from
6	6					boat No 10
7	6		N by E			at 7 ^{pm} sighted Barregat light.
8	6					
9	5					
10	4					Middle part rainy and squally
11	4					
12	4					
1	4					
2	4					at 10 ^{am} took a towboat and
3	4					towed up harbor
4	3		NNE	SW		
5	3					at 2 ^{pm} anchored in North river
6	3					with 80 fathoms on port anchor
7	4					at 5 ^{pm} hove up and docked
8	4					at Brooklyn at Martins Stores
9	4					discharged crew. So ends
10	6					the voyage to Porto Rico and
11	6					back to New York,
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, day of 18
1						
2						
3			Harbor Log			laying in New York
4						
5						
6			Monday Aug		28 th	laying at Pier 10 East River
7						loading for St. Pierre Martinique
8						"Cee" cargo as per cargo book
9						Biggers at work putting up
10						new main rigging
11						Wind SW with fine weather
12						
1						
2			Tuesday	"	29 th	Weather fine and clear Wind
3						SW Receiving general cargo
4						Steward came onboard today
5						
6			Wed	"	30 th	Weather fine Wind SSW
7						Steward taking in and
8						stowing cargo
9						
10			Thurs	"	31 st	Weather fine Wind South
11						taking in cargo
12						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Friday	Sept	1 st	Weather fine Wind South		
2						Stevedores Making in and stowing		
3						Cargo Crew came down		
4						and bent sails and took		
5						in stores at 5 P ^m took a		
6						towboat and towed over to		
7						Bed Hook to finish loading		
8								
9			Saturday	"	2 ^d	fine clear weather with NW		
10						gale finished loading caulked		
11						the hatches and got ready for		
12						sea		
1								
2			Sunday	"	3 ^d	Laying in Brooklyn ready		
3						for sea Wind light at NW		
4						Weather fine and clear		
5								
6						at 10 am crew and pilot came		
7			Monday	"	4 th	onboard took the towboat to		
8						Vanderbilt and towed down		
9						towards Staten Island at 11		
10						towboat left up made all sail		
11						and proceeded towards sea		
12						this day ends with 12 hours		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				144	18	78			

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	1008	day of	18
1		60		50	15	to commence sea time			
2		60	7 1/2		15		52	30	
3		60	7 1/2		15		30	52	
4		60			15		15	60	
5		60	49		225		3	150	
6		60	14		30		52	144	1560 (1
7		60	63		11250		52	30	144
8		60	30		1008		30	120	
9		60	144		1180		30	30	
10		60	144		18		30	52	
11		60	430		30		52	60	
12		60	30		49		15	150	
1		60	52 1/2		80		60	65	
2		60	15		120		144	1575 (1	
3		60	1580		1290		144	144	
4		60	1575 (1				144	130	
5		60	144						
6		60	144						
7		60	135						
8		60							
9		60							
10		60							
11		60							
12		60							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.

From

New York

towards

St. Pierre, Mart.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of Sept 5 th 18
1						
2	3		SE by S $\frac{1}{2}$ S	SW		Comences with light breeze and hazy weather
3	3					
4	3					
5	3					
6	3					at 1 pm pilot left us off the Light ship filled away and stood for sea
7	4					
8	4					
9	5					
10	5			NW		at 1.30 light ship abeam from which I take my departure
11	5					
12	5					
1	6					Middle part rainy
2	6					
3	6					
4	6					
5	6					Ends fresh breezes from NW and clear weather
6	6					
7	6			NNW		
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	8			38.57	38.56 N $\frac{1}{2}$ W	1-18	72.33	72.20	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wednesday day of Sept 6 th 18
1	7		SE by S $\frac{1}{2}$ S	NNW		Comences with fresh breeze and fine clear weather all drawing sail set
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					Middle part the same
10	7					
11	7					
12	7					
1	7					
2	7					
3	6					
4	6					
5	6					End fresh breezes and fine
6	6					
7	5		SE by S NW by N			
8	5					
9	5					
10	5					Pumps attended
11	5					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				37.0	37.0 N			69.28	69.30

From

New York

towards

St. Pierre, Martin

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Thursday	day of	Sept. 7th	1876
1	5		SE by S	NW		Comences with light winds from NW and fine weather all drawing sail set.				
2	5									
3	4									
4	4									
5	3									
6	3									
7	3									
8	2									
9	2									
10	2					Middle part Cloudy				
11	2									
12	3									
1	3			West-		Ends with light wind from SW and overcast with light rain				
2	3									
3	3									
4	3									
5	3									
6	3									
7	3									
8	3									
9	3									
10	3			SW		Pumps carefully attended making no water to speak of				
11	3									
12	3									
						Current ENE 30				

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				36.23 N				68.36 W	67.36

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Friday	day of	Sept. 8th	1876
1	3		SE by S	SW		Comences with light SW wind and rainy at 2 pm breezing up fast took in all light sails at 3 pm took in topgallant sail				
2	4									
3	6									
4	6									
5	6									
6	6									
7	6									
8	6									
9	5									
10	3		SE		6 pt.	at 6 pm blowing a fresh gale reefed the mainsail at 8 pm closecreefed the mainsail and took in upper topsail foresail and jib and reefed main staysail				
11	3									
12	3									
1	2									
2	2									
3	2									
4	2									
5	2									
6	2									
7	3		SE 1/2 S	West-		at 6 am wind hauling to the westward squared in and kept away SE 1/2 S at 8 am set foresail and upper topsail				
8	3									
9	3									
10	4									
11	5									
12	6									
						30 miles ENE current				
						Pumps attended				

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				35.41	35.42 N			68.48	67.35

From

New York

towards

St. Pierre Mart.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Saturday day of Sept. 9 th 18
1	6		SE $\frac{1}{2}$ S	West		Commences with fresh gales and passing clouds
2	7					
3	7					
4	7					
5	7					at 2 ^{pm} gale moderating set
6	7					Middle staysail jib and
7	6		SE by S			topgallant sail
8	5					
9	6					
10	7					
11	7					
12	7					Middle part squally
1	7			W/N W		
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					End fresh gale from W/N W
8	7					and clear
9	7					
10	7					Pumps attended
11	7					
12	7					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	8			33. 36 N	33. 32 N			65. 27	65. 40

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday day of Sept. 10 th 18
1	6		SE	W/N W		
2	6					Commences with fresh gales and clear
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					at 7 ^{pm} heavy squalls
9	5					
10	5					took in topgallant sail and mainsail
11	5					
12	5					Middle part clear
1	5					
2	5					
3	5			N W		made all drawing sail
4	5					
5	5					
6	5					
7	5					
8	4					Ends light breeze and clear weather
9	4					
10	4					
11	4			N W W		
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				32. 27	32. 21			63. 38	64. 00

From

New York

towards

St. Pierre. Mart."

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of Sept 11 th 1876
1	5		SE	NW		
2	5					
3	5					
4	5					Commences with light breezes and fine weather all sail set.
5	5					
6	5					
7	5			North		
8	5					at 7 ^{PM} cloudy and squally
9	5					took in fore royal and
10	5					outer jib
11	5			E & E		
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					End gentle breezes and cloudy
8	5					saw a ship and Barge standing
9	5					to the NW
10	5					Drums Attended
11	5		SE	East		
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SE	120				20. 59 N				62. 25 W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of Sept 12 th 1876
1	5		South	ESE	1/2 pt	
2	5					
3	5					Commences with gentle breezes and cloudy
4	5					
5	5					all sail set.
6	5					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					Middle part clear and fine
1	3					at 2 ^{am} tacked ship to
2	3		East	ESE	E 1/2 S	
3	3					
4	3					
5	3					
6	3					End with light winds and fine weather
7	3					
8	3					
9	3					
10	3					
11	3		ESE	South		
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				29. 30	29. 37	1/2 N W		61. 44	61. 48

From

New York

towards

St Pierre Mart.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wednesday day of Sept. 13 th 18
1	2		E S E	Louth		
2	3					
3	2					
4	3					
5	2					
6	3					
7	2					
8	3					
9	1		SE by E	Strong		Throughout these 24 hours
10	3					light air and fine
11	1					weather
12	8					
1	2					
2	2					
3	2					all sail set by the wind
4	2					
5	3					
6	3		SE	SSW		
7	3					
8	3					Pumps carefully attended
9	3					making no water
10	3					
11	3					
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					29. 20 N			60. 54 W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Thursday day of Sept. 14 th 18
1	2		SE	SE		
2	2			SSW		
3	2					Commences with Moderate
4	2					breezes and fine
5	2					all sail set
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					Middle part Moderate
12	2					
1	2					
2	2					
3	2					
4	2					End. Calm and
5	2					fine
6	2					
7	2					
8	1					
9	1					
10	1					
11	1					
12	1		Calm			

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				28. 55	28. 55			60. 16 W	

From

New York

towards

St. Pierre Mart

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Friday day of Sept-13 th 1876
1	0					
2	0					
3	0					
4	0					
5	0					
6	0					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	1					
2	1					
3	2		Shy E			
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Throughout these 24 hours
calms and light baffling
aris from all points of
the compass.

Latter part light winds
and commencement of the trades

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					28. 19 N			60. 34 W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Saturday day of Sept-16 th 1876
1	4		Shy E & E	East		
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	5					
10	5					
11	5					
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Commences with light trade
winds and fine weather
all sail set.

Middle part fine

at 8^{am} strong trade and
equally took in fore royal
and outer jib

Pumps Attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					26. 29 N			60. 11 E	

From

New York

towards

St. Pierre Mart.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday day of Sept 17 th 18
1	5		Lby E	Eby S		Comences with strong trades and fine weather
2	5					
3	5					
4	5					
5	5					afternoon squally
6	5					
7	5					
8	5					
9	5					at 10 ^{pm} split flying jib and took in gaff topsail
10	5					
11	5					
12	5					
1	4					Middle part heavy lightning in the SW
2	4					
3	4					
4	4					
5	4					at 7 ^{am} took a heavy squall from West took in everything but lower topsail
6	4					
7	3		Lby S			
8	3					
9	3					at 10 ^{am} set upper topsail and foresail
10	3					
11	2					
12	2					
						Ends rainy and light wind from NNE

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
No Obs. today				24.51	No Obs.			69.49W	No Obs.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of Sept 18 th 18
1	3		Lby E	Eael		Comences with fresh trades and fine weather Made all sail
2	3					
3	3					
4	3					
5	3					Middle part the same
6	6					
7	6					
8	5					
9	5					End.. fresh trades and clear
10	5					
11	6					
12	5					
1	6					Pumps Attended
2	5					
3	6					
4	5					
5	6					
6	5					
7	6					
8	5					
9	6					
10	5					
11	6					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				22.42	22.39			69.21	59.25

From

New York

towards

St. Pierre Mart

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of Sept. 19 th 1876
1	3		S $\frac{1}{2}$ E	baffling	$\frac{1}{2}$ m.	Comme in with light breeze and fine weather all sail set at 4 ^{pm} bent flying pm jib at 6 ^{pm} passed a Barge standing to the NWW
2	3					
3	3					
4	3					
5	3			and		
6	3					Middle part equally with rain took in royals and outer jib
7	3					
8	3					
9	3			Equally		
10	3					
11	3			from		End. fine with light breeze from ESE one Brig in sight.
12	3					
1	3					
2	3					
3	3					
4	3			ESE		Pumps Attended
5	3					
6	3					
7	3			N		
8	3					
9	4					
10	3			SE		
11	3					
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				21. 18	21. 18 N 20 W			0	59. 25 W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wed day of Sept. 20 1876
1	3		S $\frac{1}{2}$ E	ESE	$\frac{1}{2}$ m.	Commences with gentle breezes and fine weather all sail set
2	3					
3	3					
4	3					
5	3					
6	3					Middle part clear and fine
7	3					
8	3					
9	3					
10	3					
11	3					End. fresh trades and Cloudy
12	4					
1	4			Ely S		
2	4					
3	4					
4	5		Ely S			
5	5					
6	5					
7	5					
8	5					
9	5					
10	5			East		
11	6					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				19. 38	N			59. 31 W	

From

New York

towards

St. Pierre Mart.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Thursday day of Sept. 21 st 18
1	4		S $\frac{1}{2}$ S	Equally		Comences with fresh breezes and frequent heavy squalls
2	3					
3	3					
4	3			and		
5	3					
6	3			Buffling		
7	4					
8	4					
9	4			from		
10	4					
11	4		East			Middle part clearer
12	4					
1	4					
2	4					
3	4					
4	4					
5	4			To		
6	4					
7	4			S $\frac{1}{2}$ by S		
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					18. 11 N			59. 48 W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Friday day of Sept. 22 ^d 18
1	5		S $\frac{1}{2}$ W	East		Comes in with fresh breezes and fine weather all sail set.
2	5					
3	6					
4	6					
5	6					
6	6					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					
1	7		S $\frac{1}{2}$ W			Ends fresh trades and fine
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					15. 39			60. 06	

From

New York

towards

St. Pierre Martinique

Remarks,

Saturday

day of

Sept 23^d 1876

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.
1	7		Sby W	E N E	
2	7				
3	7				
4	7				
5	7				
6	7				
7	7		S W by S		
8	7				
9	4				
10	3				
11	2				
12	2				
1	2				
2	2				
3	2				
4	2				
5	5				
6	5				
7	6				
8	6				
9					
10					
11					
12					

Commences with fresh trade winds and fine weather all sail set at 3^{am} sighted the Island of Mont. at 7^{pm} shortened sail and layed to for daylight at 4^{am} squared away and made sail at 7^{am} sighted St. Pierre and at 8^{am} came to anchor in the bay at 10^{am} Doctor came aboard and ordered us to Port Royal bay, for 3 days quarantine hove up anchor and made sail again and proceeded to Port Royal

Arrived in Port Royal at 4.30^{pm} let go Starboard anchor and 43 fathoms chain furlled up sails to End the voyage from New York

this day End. with 36 hours to Comence harbour log

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Sunday Sept	24 th		Weather squally and rainy with wind to the eastward laying at anchor in Port Royal bay		
2								
3								
4								
5								
6			Monday	25 th		Strong breeze from E N E and smoky Crew employed in setting up rigging		
7								
8								
9								
10								
11			Tuesday	26 th		Commences with fresh breezes and clear weather at 3 ^{am} hove up anchor and started for St. Pierre at 12 took a pilot at 1 ^{pm} came to and moved in St. Pierre with 50 fathoms chain on port anchor furlled sails spread awning and cleared up decks		
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

Harbor Log

laying in
towards

St. Pierre Mart.

day of

18

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3			Wed	Sept.	27 th	Weather fine and clear		
4						with wind E/NE		
5						Crew employed in discharging		
6						cargo as per Cargo book		
7								
8			Thurs	"	28 th	Weather fine Wind NE		
9						Discharging Cargo		
10								
11								
12			Friday	"	29 th	Commences with strong Easterly		
1						breeze and rainy Discharged		
2						one lighter of Flour Afternoon		
3						heavy gale and rainy indications		
4						of a Hurricane		
5								
6								
7			Saturday	"	30 th	Weather fine but light rain		
8						showers to suff to land		
9						and cargo		
10								
11			Sunday	Oct.	1 st	fine clear weather		
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2			Mon	Oct.	2 ^d	Weather rainy and squally		
3						Discharged some cargo		
4						as per Cargo book		
5								
6			Tues	"	3 ^d	Weather squally and rainy		
7						Crew employed in Discharging		
8						Cargo		
9								
10			Wed	"	4 th	Weather fine Finished discharging		
11						cargo at night one seaman		
12						took the small boat and		
1						deserted Frank Frenchman		
2								
3			Thursday	"	5 th	Weather fine took in 30 tons		
4						of stone ballast and filled		
5						the water		
6								
7			Friday	"	6 th	Forenoon unmoored and		
8						hailed off to the bay		
9						at 3 P.M. Capt. came off with		
10						one boy going under weigh		
11						for St. Pierre Island		
12						this day Ends with 12 hours		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.

St. Pierre Mart.

From

St. Pierre

towards

Turks Island

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Lat.	day of	1876
1							Oct-7 th	
2								
3						Commences rainy and squally		
4						at 4 ^{pm} got under weigh		
5	2		NW by N	NE		from the buoy at St. Pierre		
6	2					and proceeded to sea		
7	3							
8	3							
9	2							
10	4							
11	3					Middle part squally		
12	3					Dominica in sight on		
1	6					starboard beam		
2	6							
3	6			ENE				
4	6							
5	6					at 12 ^m North End of Guadalupe		
6	6					Island bore NE by E distant 13 miles		
7	6							
8	6							
9	7					End of fresh trades and fine		
10	7			East		weather		
11	7							
12	7							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					16.04N				

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday	day of	1876
1	7		NW by N				Oct-8 th	
2	7					Commences with strong trades		
3	7			East		and fine weather		
4	7					all sail set		
5	7							
6	7							
7	6							
8	6							
9	7							
10	7					Middle part squally		
11	7					took in light sails		
12	7					at 2 ^{am} made Saba Island		
1	7							
2	7							
3	7							
4	7					at 6 ^{am} kept off NW by NW		
5	7					for sail rock passage		
6	7							
7	7		NW by NW	East				
8	7					at 12 ^m sighted Virgin Gordon		
9	7					bearing NW by N distant 20 miles		
10	7							
11	7							
12	7							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					18.08				

From

St. Pierre

towards

Turk. Island

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of Oct-9 th 18
1	7		W/VW	East		Commences with fresh trades and fine at 4 ^{pm} sighted St. Thomas Island
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7		NW			at 8 ^{pm} came through between St. Thomas and Torti Roes
9	7		NW 1/4 N			
10	7					
11	6					Middle part fine
12	7		NW			
1	7					
2	7		NW 1/4 N			Engaged in painting ship outside
3	7					
4	7					
5	7					Ends fresh breezes and fine weather
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					19.44 N				

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of Oct-10 th 18
1	7		NW by N	East		Commences with fresh trades and fine weather all sail set
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					Ends the same
9	7					
10	7					
11	7					
12	7					
1	7					
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					21.10			6200	

From

St Pierre

towards

Turks Island

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Wed	day of	Oct-11 th	1876
1	7		W by W							
2	5									
3	5		W by N	East		Commence with fresh trades				
4	5					and fine weather all				
5	5					drawing sail per.				
6	5									
7	5									
8	5									
9	5									
10	6					Middle part the same				
11	6									
12	6					at 6.30 sighted the light				
1	6					tower on Grand Turk				
2	6					at 8 ^{am} took a pilot and at 11				
3	7					came to anchor with 80 fathoms				
4	7					chain on port anchor furlled				
5	7					sails and commenced throwing				
6	7		W by S	ESE		overboard ballast.				
7	7									
8	7					This day end. with				
9	7					36 hours to commence				
10	7					harbor log				
11	7									
12										

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3			Thursday Oct	12 th		Comes in with fresh trades		
4						and fine weather at 5 ^{am}		
5						hove up and got under		
6						weigh for East Harbor		
7						at 6 ^{am} commenced throwing		
8						over ballast finished at 9.30		
9						at 10.30 came to anchor		
10						in East Harbor with both		
11						anchors ahead layed		
12						dunnage and got ready		
1						for Salt.		
2			Friday Oct	13 th		Weather fine with fresh		
3						trade winds "Bee" 3.18.36.		
4						bushels of Salt.		
5								
6								
7			Sat	"	14 th	Weather fine & clear		
8						finished loading Salt.		
9						7,178 bushels and hove		
10						out to the buoy ready		
11						for sea		
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

Turk. Island

towards

Boston

1898

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday day of Oct-15 th 18
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Commences with fresh breeze
from SE and fine clear
weather at 7.30 am hove up
anchor and made all sail
at 8 am east off from the
bow and left off East Harbor
at 10 am discharged the pilot.

this day End. with 12 hours
to comence sea time

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of Oct-16 th 1898
1	6		NE by N			
2	6					
3	6		North	E SE		
4	6					
5	6					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	4					
1	4					
2	4					
3	4					
4	4					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	4					

Commences with fresh trades
and fine weather
all sail set.
at 2 pm Turks Island
light bore SE distant
19 miles from which
I take my departure

SE

Middle part fine

Latter part engaged in
painting ship

Pumps Attended every
2 hours

Le End

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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23.43N

71.28

71.28W

From

East Harbor

towards

Boston

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	Oct.	17 th	1876
1	4		North	SE						
2	4									
3	4									
4	4									
5	4									
6	4									
7	4									
8	4									
9	4									
10	4									
11	4									
12	4									
1	4									
2	4									
3	4									
4	4									
5	4									
6	4									
7	4									
8	4									
9	3									
10	3									
11	3									
12	3									

Commences with gentle trade
and fine weather
all sail set

Middle part the same

End: with light South
wind and a heavy
Northwardly swell

at 8 am took in Gaff topsail
and mainsail

South

Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

23. 29 N

71. 42 W

H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	Oct.	18 th	1876
1	3		North							
2	3									
3	3									
4	2									
5	2									
6	2									
7	2									
8	2									
9	2									
10	2									
11	2									
12	2									
1	2									
2	2									
3	2									
4	2									
5	2									
6	2									
7	2									
8	2									
9	2									
10	2									
11	2									
12	2									

Commences with light
Wind from the South
all drawing sail set

Middle part squally
with rain

End light air
from SE and fine

Pumps attended

Squally

Squally

Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

26. 18

71. 50 W

From

Turks Island

towards

Boston

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Thursday day of Oct. 19 th 18
1	2		North	E/V E		
2	3					
3	3					Commences with squally
4	4					rainy weather
5	4					
6	4		NW	NV E		and dark gloomy looking
7	4					clouds all drawing sail
8	4					set.
9	4					
10	4		North	East.		At 6 ^{pm} took in light
11	3					sails
12	3					
1	3					
2	3					
3	3					Middle part clearer
4	3					
5	3					
6	3					
7	4					End. with fresh Easterly
8	4					breezes and frequent
9	4					squalls
10	4					
11	4					Breeze attended
12	4					every 2 hours

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				40.27.37				72.17	No Ob.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Friday day of Oct 20 th 18
1	5		North	SE		
2	5					
3	5					Commences with fresh
4	5					breezes and squally
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					Middle part the same
11	5					
12	5					at 6 ^{am} set light sails
1	5					
2	5					
3	5					
4	5					
5	5					Noon heavy southerly
6	5					squalls took in light
7	5					sails Gaff topsail and
8	6			SE		main sail
9	6					
10	6					So End
11	6					
12	6					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				29.38				71.40	

From

East Harbor

towards

Boston

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Lat.	day of
1	7		N $\frac{1}{2}$ W	SE		Commences with fresh breezes from SE and squally	Oct. 21 st 1876
2	7					at 6 ^{pm} took in fore royal	
3	7					at 9 ^{am} wind increasing to a gale took in fore top gallant sail	
4	7					wind right aft. at 12 mid took in upper top sail and reefed foresail	
5	7					at 4 ^{pm} wind increasing to a Hurricane pulled square sails and hove to on starboard tack	
6	7			SE		under close reefed mainsail reefed main top sail and f. T. No 14	
7	7					at 8 ^{am} blowing a Hurricane got staysails down and put out a ding a fearfull sea coming from S E	
8	7			South		at Noon got cargo gear and put hawsers to it for another ding	
9	7					End wind a Hurricane blowing hard from South	
10	7					Pumps attended every half hour	
11	7					(No Obs. rain)	
12	7						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Sunday	day of
1						Comes in with a fearfull Hurricane from South and heavy	Oct. 22 nd 1876
2						Rolling ship and heavy	
3						Rolling ship and heavy	
4						Rolling ship and heavy	
5						Rolling ship and heavy	
6						Rolling ship and heavy	
7						Rolling ship and heavy	
8						Rolling ship and heavy	
9						Rolling ship and heavy	
10						Rolling ship and heavy	
11						Rolling ship and heavy	
12						Rolling ship and heavy	
1						Rolling ship and heavy	
2						Rolling ship and heavy	
3						Rolling ship and heavy	
4						Rolling ship and heavy	
5						Rolling ship and heavy	
6						Rolling ship and heavy	
7						Rolling ship and heavy	
8						Rolling ship and heavy	
9						Rolling ship and heavy	
10						Rolling ship and heavy	
11						Rolling ship and heavy	
12						Rolling ship and heavy	

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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31. 14W

From

Turks Island

towards

Boston

10017

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of Oct. 23 ^d 1876
1	3		NNE	NW	3 pt.	Comences with fresh gales and clear weather
2	3					
3	3					
4	3					
5	3					at 1 pm turned out close reef from the mainsail
6	3					
7	3					
8	3					
9	3					Middle part squally with rain
10	3					
11	2					
12	2					
1	2					Latter part heavy swell coming from the NE
2	2					
3	2					
4	2					
5	2					fresh gales from NWN and light squalls
6	3					
7	2					
8	3					
9	2					Pumps Attended
10	3					
11	2					
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					31° 44' N				70.84 W

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of Oct. 24 th 1876
1	3		NNE	NW	3 pt.	Comences with fresh gales and a heavy NE swell "Bar" down to 29.70
2	3					
3	3					
4	3					
5	3		NE by N			light Northerly squalls
6	2					
7	2					
8	2					
9	2					Middle part clearer
10	2					
11	3					
12	3					
1	3		North	NWN		at 2 am set top gallant sail and main J.M.R.R.
2	3					
3	3					
4	3					
5	4					at 6 am weather getting finer and swell going down set flying jib
6	4					
7	4					
8	5					
9	4					End with fresh breeze from NWN and clear
10	4					
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					32° 42'				69.56

From

East Harbor

towards

Boston

1001

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Wed	day of	Oct. 23. 1876.
1	4		NNW West.						
2	4			45 64	6 36 64	Comences with fresh breeze			
3	4	18		47 64	14	from the westward			
4	4	16		56	50	and clear weather			
5	4	10 8		30	3				
6	4	18 8		16 80 (44)	15 00	at 4 pm passed a Barge			
7	4	2 8 8		44	11 44	standing to the Eastward			
8	4	2 4		44	4 29 6				
9	4		Nly NW	44	60				
10	4			9 6	4				
11	4			13	74				
12	4	24		12	10 8	Middle part the same			
1	4	30		12	27				
2	4	2 7 20		12	27				
3	4	2 7 20		24	3 7 8				
4	4			12	25 0				
5	4			12	25 0				
6	4		North	24	100				
7	4			24	25	End. fresh breeze from			
8	4	14		37	50 0	West. and fine			
9	4	9 8		12	25 0				
10	4			12	24				
11	4			12	100				
12	4		NNW West.			Drumps attended			

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					34.15 N			70.23 W	

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	Thursday	day of	Oct. 26th 1876
1	4		NNW West.						
2	4				100	Comences with fresh breezes			
3	4				25	and clear weather			
4	4				25 00				
5	4	22			12 24	at 6 pm wind increasing			
6	4	5 25			100	took in flying jib & top			
7	3				100	gallant sail and reefed main			
8	3					bars			
9	2								
10	3								
11	2		NNE NW West-north West						
12	3					Middle part Cloudy			
1	2								
2	3								
3	3								
4	3								
5	3					at 10 am took out			
6	3					reef from No 9 and			
7	3								
8	3					set for J G I			
9	1					at noon saw a big standing			
10	3					to the S E			
11	3								
12	3					So End.			

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					35.47 N			70.12 W	

From

Tuck's Island

towards

Boston

Remarks,

day of

Friday Oct. 27th 1876

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,
1	4		North			
2	4			32 64	48	Comes in with fresh breeze
3	4				50	and cloudy weather
4	5				530	all but royal set.
5	5				149 168 0 11.7	
6	4				144	at 6 Pm strong breeze from
7	5				144	the westward and puffy
8	4				144	
9	5				144	at 10 Pm heavy lightning storm
10	5					with the Northward took in
11	3		NW	NW	2 M.	top gallant sail and flying jib
12	3					at 10.30 took a heavy squall
1	3					from NW took in upper
2	2		NE		3 M.	top sail and closed reefed the
3	2					mainsail at 4 am took a heavy
4	2					squall from NW hauled up
5	2					the fore sail and reefed in
6	2		West		7 M.	
7	2		up W			at 6 am wore ship and hove
8	2					to on starboard tack under
9	2		off SW			closed reefed mainsail and
10	2					reefed main staysail split fore
11	2					top sail staysail and took bit
12	2		cloudy ship rolling			in End. heavy gales and

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
Main	deck	being	constantly	flooded	with	water			no

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,
1	1		up W			
2	1					Comences with heavy NW gale
3	1					and squally ship rolling
4	2		off NW			rails under keeping the main
5	1					deck full of water all the
6	2					time
7	1					
8	2		W by N	NW	6 M.	at 4 pm wind moderating a
9	1					little set lower top sail and
10	2					bot jib
11	1					
12	1					
1	1					Middle part heavy gales
2	2					and clear
3	2					
4	2					at 6 am set reefed foresail
5	2					and whole jib
6	2					at 10 moderating fast.
7	2					set upper top sail & top gallant
8	2					sail and flying jib
9	3					at noon backed to NE
10	3					End. fresh breeze and
11	3					cloudy weather pumps attended
12	3					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					36.31				69.30

From

East Harbor

towards

Boston

H. K. $\frac{1}{2}$ K. Courses. Winds. Leeway. Remarks, Sunday day of Oct 29 1876

1	3		NNW	West.							
2	3										
3	4		68 hhd								
4	4		4			55					Comences with fresh breeze and cloudy weather
5	5					15					
6	3		25-2/4			15					
7	5		28-2/4			15					repaired fore topmast stays and set it.
8	5		25-5			75					
9	5		50			25-5					
10	5		25-0			75					at 9 pm squally took in top gallant sail and flying jib
11	5		25-0			15-5					
12	3		18-0			50					
1	2					62-5-0					Midnight wind freshening to a gale took in upper topsail jib and closed reefed the mainsail & main staysail ship rolling rails under and filling the main deck full of water all the time
2	2	15	NNW	W		15					
3	1	15				15					
4	1	15	18	144	8	75					
5	1	15		144		15					
6	1	15		225		225					
7	1	15		250	78	50					
8	1	15		250	78	50					
9	1	15		250	78	50					
10	1	15		250	78	50					
11	1	15		250	78	50					Ends. heavy gales and cloudy at noon wore ship to West.
12	1	15		250	78	50					

Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

37.49 38.49

68.00

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Monday day of Oct 30 1876
1	2		Wby N	48	144	
2	2			36	64	
3	2	15		14	50	Comes in with fresh gales and cloudy weather
4	3	15		75	13 1/3	
5	3	15		144	79-20	at 2 pm gale moderating
6	3	15	NNW	30	480	set upper topsail jib and middle staysail
7	3	15		30	480	
8	3	15		30	480	
9	3	15		30	480	at 4 pm shook out reefs from mainsail
10	4	15		30	480	
11	4	15		30	480	
12	4	15		30	480	
1	3	15		30	480	
2	4	15		30	480	Middle part strong breeze and fine
3	3	15		30	480	
4	4	15		30	480	
5	3	15		30	480	
6	4	15		30	480	Ends. fresh breeze and fine clear weather
7	4	15		30	480	Every set by fore royal and outer jib
8	4	15		30	480	
9	3	15		30	480	
10	3	15		30	480	
11	4	15		30	480	
12	4	15		30	480	

Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

38.214

69.184

From

Turk. Island

towards

Boston

NOTE

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Tuesday day of Oct 31 st 18
1	4		Why N	920		Comences with fresh breeze and the Northward and fine clear weather
2	4			180		
3	4		5-22	180		
4	3		21	192		
5	3		22	408		
6	3		44	198		
7	3			383	(198)	Middle part clear and moderate all sail set.
8	3		N/NW	198	18	
9	3			118		
10	3			1063		
11	3			96		
12	3			7		
1	3			225	56	8 am Calm unbent the foresail and repaired it bent it again
2	3			225	56	
3	2			225	56	
4	2			225	56	
5	2			225	56	
6	2			225	56	
7	1			30		End. fine but cloudy
8	0			30		
9	0			30		
10	0			30		
11	1		N/NW	144	116	
12	2			144	116	

Course.

Distance.

Diff. of Lat.

Departure.

Lat. by D. R.

Lat. by Ob.

Variation.

Diff. of Lon.

Lon. in.

Lon. by Ob.

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Wed day of Nov 1 st 18
1	2		North	N/NW		Comences with light wind and fine weather all sail set.
2	3			1 Bos		
3	3					
4	2					
5	5					
6	3					
7	3					Middle part foggy
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					End. light winds and hazy foggy weather
2	6					
3	5					
4	5					
5	4					
6	3					
7	3					
8	3					
9	3					
10	2					
11	2					
12	2					

Course.

Distance.

Diff. of Lat.

Departure.

Lat. by D. R.

Lat. by Ob.

Variation.

Diff. of Lon.

Lon. in.

Lon. by Ob.

39. 58N

70.30W

From

Turk. Island

towards

Boston

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Thursday day of Nov 2 ^d 1876
1	2		NW	20	12	
2	2		20		12	comes in with light breeze
3	3		24		12	and foggy weather all sail
4	3		480		960	set
5	3		12		3	
6	4		960		288	at 12 mid rounded in 43 fath
7	4		480		20	
8	4		NNE		5760	at 4 am rounded in 19 fathoms
9	5		4)16743	41.853		" 6 " " 17 "
10	5		16	42)41.85348	9	
11	5		4	136		at 8 2/3 rounded in 15 fathoms
12	5		34	58		
1	6		32	48		at 10 12/15750 18
2	6		23	105		" " "
3	6		20	89		at 11 am " in 88
4	6		NE	20)348	12.8	hauled up north thick fog
5	6			20		with wind at W & W
6	6			148		
7	6			140		
8	6		2180	9 18 07		
9	6		180			at noon clearer got the
10	6		E NE	198		sun 41.09 W Laid
11	6		North	996		kept up NW to go up
12	6		NW	138		South channel

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, Friday day of Nov 3 ^d 1876
1	6		NW by N	SW		
2	6					Comes in with fresh breeze
3	6					from SW and thick fog
4	6					all sail set
5	6					
6	6					at 9 pm sighted Nauesetts lights
7	6					at 12 mid Highland light
8	6					bore SW at 1 made the
9	6					race point light
10	6					at 3 am made minots light
11	6					" 4 am Boston "
12	6		NW			at 6.30 am came in by Boston
1	6					light at 8 am anchored on
2	6					fourth Boston flats at 10 am
3	6		W NW			hove up and docked at
4	6					Mistic wharf Charlestown furled
5	6					sails cleared up decks and
6	6					Discharged the crew so End.
7	6					the passage from Turk. Island to Boston
8						19 day
9						this day has 36 hours to End
10						Sea Time
11						
12						

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

Benjamin

towards

Latrop

From

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1						Almond Bread		
2						Blanch $\frac{1}{2}$ lb of almonds and dry them		
3						Night before in the Oven when not very		
4						hot the next morning grind and boil		
5						them for an hour and a quarter in		
6						water in which a Tea Spoonfull of		
7						vinegar has bin put then mix well		
8						the mass with 6 pieces of butter about		
9						the size of a large Walnut and 4 Eggs		
10						then put in a little salt the yolk of		
11						4 Eggs and then stir the whole briskly		
12						for ten minutes a fine froth made by		
						beating the whites of the 4 Eggs stiff. Is then		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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Add them bake in Cups by a gentle fire

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1						Smear the Cups with melted butter		
2						before baking Bake about three quarters		
3						of an hour		
4								
5								
6								
7						Egg Bread		
8						one Egg well beaten one pint of		
9						Milk a little salt & $\frac{1}{4}$ cups		
10						of glutens flour bake in it		
11						hot oven about twenty minutes		
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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10) 260 (26
 20 150
 60 900
 1100 200
 2400 260
 18

12) 22 1/18 1/2 15 554
 12 24
 101 24
 160 24
 390 24
 200 24

From

towards

H.	K.	1/2 K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1						Notified with William Sloan		10/26062
2	May 5		6 hours off			18 200		
3	6					19 200		10) 360 (36
4	7			28	13 200	20 200		260 150
5	8			29	14 200	21 200		900
6	9			30	13 200	22 200		4500
7	10			31	13 200	23 200		5700
8	11		2 June 1		7 200	24 200		270
9	12		2 June 2			25 200	176	95
10	13			3	200	26 200	86	146.50
11	14		6 do 4		200	27 200	95	
12	15		do 5		200	28 200	227 14	
1	16			6	200	29 200	26	
2	17		4	7	200	30 200	94	
3	18			8	200	31 200	28	
4	19			9	200	1 175	364	
5	20		16	200 10	200	2 200		
6	21		15	200 11	200	3 200		
7	22		15	200 12	200	4 200		
8	23		13	200 13	200	5 200		
9	24		14	200 14	200	6 200		
10	25		14	200 15	200	7 175		
11	26		18	200 16	200	8 175		
12	27		13	200 17	200	9 175		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	1/2 K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1						Charles Macomber Work June 22		
2						William B. Sloan Dr		
3	4 5		63			to E. H. Cropper for services		
5	8 10		1.25			Paid June 11		
6	9 10		1.25			1891 July 21 25		
7	12 10		1.25			22 1.00		
9						October 12 sold to Prater Smith 4 Bushels		
10						onions for		8360
1								
2								
3								
4								
5								
6						Oct 12 Bought of Prater Smith 2 Bushels		
7						Potatoes at 65¢ per bushel		130
8						9 Bushels apples at 25¢		225
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

New Bedford

towards

Cape Fairwell & Lams Straits

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, 17	day of July	1877
1						At 9 A.M. left City Wharf Toward by		
2						Steamer Lug & Hatter (Glyde in A)		
3						thick fog at 12 1/2 the Lug and Pilot		
4						left		
5					6.00	Lug sold to Capt Hager		
6	3		17 lbs Ham		2.04	July 17 Sold 2 Ton Ham 24.00		
7	10				51.00	18 do 18.00		10.80
8	20				4.10			
9			Lard					
10	2				2.00			
11	9				2.00			
12	23		S W Ham		9.00			
1					2.00	made Every thing snug for the		
2					32.14	night. chas wacks and Boats Crews		
3					45	latter part. were Ship employed		
4					90	in getting Boats ready		
5					56			
6					84.05			
7					46.50			
8					12.45			
9					9.00			
10					9.45			
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, 18	day of July	1877
1						Bought Dressing of		
2						Capt Hager		
3						April 1 Load		
4						4.00		
5								
6								
7						22 1 do		
8						30		
9						May 1		
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

20/12 00 60
100

towards

180
180

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks.	day of	18
1								
2						March 14 1891		
3						Bought of Naggon of Mr Cole		50.00
4						Paid		25.50
5								1.57
6								
7						October 3 rd /91		
8						Received of Capt Charles H Hagar on accoun		
9						for Hay Twenty Three Dollars		25.00
10								
11								
12								
1								
2						Capt Charles H Hagar Dtr. to		
3						E W Grapo July /91 for Hay		20.00
4								4.50
5								5.00
6								
7								
8						Turnips 4.00		
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks.	day of	18
1						April 8 Edward Kelly worked for me		
2						13 9 Hours		
3						18 5.50 25 5.50 June 1891		
4						May 2 10 100. 9. 4. 40 2 20 1 10 2 20		
5						20.2, 20 23 10 100 25.3, 30 27 2 20 28.2 20		
6						June 2 2.20 3 2.20 4 2.20 25.4 45.26, 10 150		
7						9.2 20 11 1 15 20 9.90 27.9 90		
8								
9								
10								
11						E W Grapo Dr to James Kelly April 10		
12						April 14		
1						17 7 35 18 8 20 21 15 22 10 Paid		
2						25 5 25 June 2 1891		
3						May 2 10 5 00 18 2 13.20, 2.10, 21.2, 10, 23.10 50		
4						25 2 10 27 2 10 28 2 10		
5						June 2 12 18 3 2 10 14 2 10 5 6 35 6.10. 50		
6						9 2.10. 10.2 10.11 2 10 13 10.50 15 2 10 16 2 15		
7						17.2.10 20.9.45 2 3 10 24 2 10 25 2 10 27.10 50		
8						July 1.10.50 2 10		
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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Jan 12 Tober 15.00 Hens 144 Roosters 6 Chickens 15
 From *Credit January* towards *Debit*

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, day of	1891
1	Eggs 18		Log	25 40		10 2 Bush Corn	8 1.50
2	23		2.16 3 1/2	26 32		5 2 Bush Corn 10 lbs Wheat	3.14
3	14			27 35	3.52.11	13 1 Bushel Corn	.75
4	16			28 34		15 2 Bushel Corn 10 lbs Wheat	1.50
5	16			29 27		10 lbs Wheat	1.65
6	16	1.80 5		30 28	256.8	22 2 Bush Oats 1 Wheat 1 Corn	3.65
7	22			31 24		29 Shells 50 Drops 1.30	1.80
8	16					31 Oats Meal Wheat	3.64 17 63
9	22	162 4 1/2		Egs sold	23.80		
10	19			used	80		
11	28			Manure	3.00		
12	27	170 5		No of Egs	27.60		
1	13	30		891			
2	14	36	1.50 4 1/2				
3	15	31					
4	16	35	1.80 5 1/2			Credit	
5	17	31					
6	18	39					
7	19	37	2.24 7				
8	20	32					9.97
9	21	47					
10	22	40	15				
11	23	37	4.80 "				
12	24	35					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks, day of	1891
1		32	Log	25 26	1.10 5 1/2	2 Bush Corn	1.40
2		25		26 37	201	9 2 Bush Corn	1.48
3		25	2.70 9	27 35	1.20 6	13 2 Bush Corn	1.48
4		41		28 40		17 2 Bush Corn 100 lbs Wheat	3.22
5		24		29		20 2 Bushels Corn	1.54
6		26	1.80 6	31		25 2 Bushels Corn	1.54
7		29					10 73
8		22		7.26			
9		21					
10		25	2.96 8				
11		22					
12		27					
1	13	16	2.29 6				
2	14	17					
3	15	20				Credit	
4	16	20	100.5			2 sold 2 Duck	1.54
5	17	16				Eggs sold 56 Log	15.05
6	18	24				Eggs used 4 1/2	1.08
7	19	19				Manure	3.00
8	20	27	1.10 5 1/2				20.57
9	21	22					9.84
10	22	23	80.4				
11	23	32					
12	24	32					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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March
From Jan 19 Bought 45 Hens and Poultry 1 Rooster at cost of \$79.98 towards March

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	1891
1	48		208	25 74	110.5	2 Bush Corn 1 do Oats	\$ 2.19	
2	56		5.2026	26 78		2 2 Bush Corn 1 do Oats	2.04	
3	49			27. 83		6 2 Bush Corn	1.58	
4	50			28 66	147.7	10 3 Bush Corn	2.44	
5	51			29 00	231.11	2 Bush Oats	1.33	
6	61			30 92		14 2 Bush Corn	1.70	
7	59			31 85	1266	172 Bush Corn 1 do Oats	2.43	
8	63		2.60 13			211 Bush Corn 1 do Oats	1.62	
9	63		1.00 5			23 2 Bush Corn	1.82	
10	67					25 2 Corn 1 Oats	2.53	
11	56					28 2 Bush Corn	1.82	21.50
12	54		2.00 10					
13	58		80 4			Poultry sold	2.57	
14	57		1.60 8			14 Poultry	3.76	
15	66					26 Poultry	4.56	
16	67					Eggs sold and used used	34.23	
17	70					Manure	3.00	48.82
18	66		3.80 19					
19	69							
20	72		3.80 19					
21	69							
102	63		5.00 25					
123	54							
124	75		192 8					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	86			25 81		2.4 Bushels Corn	\$ 3.44	
2	95		2.17. 9	26 86		4 1 Bush Corn 3 do Oats	2.98	
3	91			27 96	96.6	9 3 Bushels Corn 2 Oats	4.04	
4	92		3.80. 19	28 82		16 3 Bushels Corn 2 Oats	4.04	
5	93			29 88	622.36	23 3 Bush Corn	2.83	
6	92			30 85		2 Bushels Oats	1.48	
7	89					29 3 B Corn 3 B Oats	4.86	23.67
8	85							
9	88		6.83.32					
10	78							
11	81							
12	75					Poultry	3.44	
13	76					Poultry	3.35	
14	90		1.86.11			Eggs sold 3474 used 2.04	36.78	
15	86					Manure	3.00	46.57
16	83							22.90
17	73		5.49.30 1/2					
18	78							
19	88							
20	78							
21	88							
102	78							
123	78		6.88.42					
124	86		88 5 1/2					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *brexit July 1891* towards *Dept*

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	56			25-58		2 / Corn		22
2	45		4.56/9	26 45		1 Oats		56
3	59			27 49	260/0	50 lbs Wheat		95
4	45			28 48		Meat		36
5	58			29 42		2 Bu Corn e 78¢		1.56
6	45		2.259	30 49		1 do Oats		56
7	49			31 41	449/7	50 lbs Wheat		95
8	38					Meat		42
9	44					13 Bu Corn e 72		72
10	45		2.359			50 lbs Wheat		95
11	43					15- Bush Corn		72
12	45					Oats do		56
13	43		3.48/4½			50 lbs Wheat		95
24	45					24 / Corn		72
35	36		2.349½			1 Oats		60
46	49					50 lbs Wheat		95
57	44					31 Bush Corn e 80¢		1.60
68	51					1 Bush Oats		60
79	45		3.64/4½			50 lbs Wheat		95 15.40
80	49							
21	54					Fowl	2.34	
102	48					Eggs	32 62	34.96
113	48					Manure		3 00
124	50		Eggs	1566				

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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August 1891

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	38		Loz	25-27		4. / Bush Oats		56
2	31		0	26 29		50 lbs Wheat		95
3	35			27 23		8. Bush Corn		80
4	36		286.11½	28 27	1826½	11. Bush Corn		80
5	28			29 27		Bush Oats		65
6	28			30 37		50 lbs Wheat		95
7	39			31 31	2637	14. Bush Corn		80
8	33		286.11			Bush Oats		65
9	28					17. 50 lbs Wheat		95
10	35					24. Bush Corn		86
11	33		130.5			Oats do		56
12	30					28. Bush Corn		88
13	35					Oats do		54
24	31		302.12			50 lbs Wheat		95 10 80
35	38							
46	34							
57	35		1907½			Fowl sold	8.17	
68	24					Eggs sold	21.07	
79	34					Eggs used	69	29.93
80	32					Manure		3 00
91	39							
102	28							
113	32		4.68/18					
124	27		No of Eggs	9.75				

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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Credit
From

September 91

towards

Sept

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1		21		25 14	Sept	1 Bush 84 1 B Oats 35 lbs		84
2		40	3.15 10 $\frac{1}{2}$	26 6		50 lbs Wheat		95
3		31	30 1	27 13		7 Bush Corn 86 1 do Oats 54	1.40	
4		32		28 10	96.3	11 Bush Corn		86
5		34		29 13		15 B Corn 1 do Oats 54 shells	1.83	
6		32		30 13	1284	20 B Corn 84 Oats 54 100 lbs Wheat	3 28	
7		35	3.30 11			24 B Corn 1 do Oats 50	1.34	
8		32				28 B Corn 1 do Oats 50	1.34	11.89
9		34						
10		32						
11		34	3.15 10 $\frac{1}{2}$					
12		28						
13		33						
14		29						
15		15	2.70 9			Eggs sold	21.25	
16		28				undersold	" "	
17		9				Poultry sold	2.95	
18		12				Marline		\$ 24.20
19		7						3 00
20		5	3.52 11					27 20
21		20						
22		7						
23		13						
24		17	2.88 9	Eggs	728			

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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Credit October 91

Debit

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	13		1.24.4	25 15	Oct	1 Bush Corn 74		74
2	15			26 15		1 do Oats		56
3	27			27 15	1.70.5	5 lbs Wheat		95
4	17			28 16		6 B Corn 74 1 do Oats 56	1.30	
5	15			29 16		50 lbs Wheat	95	
6	25		1.60.5	30 13		14 2 B Corn 158.2 B Oats 112	2.70	
7	18			31.10		20 3 B Corn 22 2.2 Oats 112	3.34	
8	20					5 lbs Wheat	95	
9	18		1.60.5			27 2 Corn 148.2 Oats 112	2.60	14.04
10	28					50 lbs Wheat	95	
11	16							
12	25							
13	19		2.56.8					
14	25					Eggs sold	11.54	
15	17					Used	12.90	
16	23					Poultry sold	5.70	\$ 19.14
17	20					Marline		3 00
18	20							22 14
19	25							
20	21		2.84.6					
21	21							
22	16							
23	17							
24	16					Eggs	5.07	

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *Credit Nov 91* towards *Better*

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	20			25 18	2.66.7	4 3 Corn 234 2 do Oats 100	3.84	
2	20			26 15		8 2 Corn 2 Oats 100	2.56	
3	17			27 11		14 1 B Oats	50	
4	16		3.50.10	28 18		18 2 B Corn 100 Oats 100	2.56	
5	25			30 7		27 2 B Corn 100 Oats 100	2 40	<i>\$11.36</i>
6	17			30. 13				
7	22							
8	20		1.14.3					
9	19							
10	15							
11	17							
12	22		2.00.5					
13	18							
14	22					Eggs sold & used	14.62	
15	22					Poultry sold	9.58	
16	15					Manure	3.00	<i>27.20</i>
17	27		5.32.14					
18	17							
19	20							
20	16							
21	12							
22	27							
23	14							
24	10		<i>Eggs</i>	<i>4.68</i>				

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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Credit December

Depter

H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	10		2.75.7.3	25 14	0.67	1 2 B Corn 140 2 Oats 104	2.44	
2	10			26 11		8 3 B Corn 210 2 Oats 104	3.14	
3	9			27 12		15 2 Corn 140 2 Oats 104	2.44	
4	10			28 12		24 2 B Corn 140 1 Oats 50	1.90	<i>9.9 2</i>
5	8			29 15				
6	10			30 18	1.92.6			
7	12			31 18				
8	30		190 5					
9	13							
10	10							
11	10					Eggs sold	<i>\$11.72</i>	
12	11					do used	2.00	
13	10					Manure	2.00	
14	10					Poultry sold	5.89	
15	8		228.6					<i>\$41.61</i>
16	11							
17	9							
18	11							
19	12							
20	9							
21	11							
22	11							
23	10		2.89.8 $\frac{1}{2}$					
24	8		<i>No Eggs</i>	<i>393</i>				

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

9 13

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	Box		Contents tools etc			Furnans		70 P
2	Cool Hard Sodd Iron etc					Hathaway		95 P
3	Drills Hammer etc					R. Howland		85
4	Measures + Balances					B. Wilcox		95 P
5	Large Saw					Capt J. Chase		30
6	3 Saws + Square					Mr. Davis		20 P
7	Collar James Hatcher					Jim		5 P
8	Paul Nut + Sling					Saffrey		40 P
9	Block + Falls (Pine)					Mr. Davis		225 P
10	Stool Shovel Bugdeath					Mr. R. Howland		85
11	Ariseut Saw					Capt J. Chase		35
12	W. Brush Wrench					Mr. Davis		10 P
1	Sawn Timber					Thos Allen		75 P
2	Planet Jr. Planets					Cole		300 P
3	3 Blocks Pickaxes etc					Lady		15 P
4	Sledge							35 P
5	Cradle					Chase		25
6	Iron Bar					Jim		15 P
7	Small Iron Bar					Jim		10 P
8	Seymour					Alfred Potter		30 P
9	Table					Lady		15 P
10	Rake Fork + Bar					Saffrey		30 P
11	Backsaw					Borden		15 P
12	Brindstone					Joe Furnandy		100 P

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	Heat Eggs					B. Wilcox		15 P
2	Box + contents							05 P
3	Whelbarrow							235 P
4	Buttle + Bridge etc					B. Wilcox		10 P
5	Cultivator					Taylor		175 P
6	Shovel					C. Littlefield		100 P
7	Ladders					Harsfall		15 P
8	Cut Wood + Kind + roove					Cohen		15 P
9	Yunk in Back Room Visi etc					Cohen		55 P
10	Wood in So Room in barn					Cohen		25 P
11	Contents of So Room					Saw		05 P
12	Salt Pot + Wooden one					Cohen		15 P
1	Box of Jars etc					Hathaway		15 P
2	Yel Barrel + Plate					Lady		05 P
3	Salt Cellars + Dish					Lady		10 P
4	Seas Mon					King		10 P
5	10 Plates					Mrs T. Gifford		55 P
6	Beam Pot + brassman					Thos. Sargent		05 P
7	Yel Pitch + White One					Potter, Abram		05 P
8	Maffy + Barrel + Pitcher					Mrs T. Gifford		20 P
9	4 Jugs + Jars					Swift		25 P
10	Plates Gray Boat etc					Thos. King		10 P
11								1975
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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10 9

H.	K.	1/2 K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Glass Sub			Doverport		06 P
2			2 Old Plates			King		35 P
3			2 Pitchers			Mrs T. Eufford		10 P
4			Glass Pitchers			Housfall		110
5			Nappies & Glassware			A. Potter		05 P
6			Lamp					05 P
7			Tumbler of Shells			Mrs Eufford		10 P
8			Lan Globe & Shade			A Potter		05 P
9			Bracket Lamp			Abm Allen		05 P
10			Mug Sauce & Globe					03 P
11			Set on Table Rolling Pin			Clarke		60 P
12			Table & Contents			Mrs King		50 P
1			Corn Pail			Hathaway		60 P
2			Miscellany					05 P
3			Plates					10 P
4			7 Plates			Mrs Taylor		11 P
5			Pull Board					15 P
6			Corn Pail Jelly!			R. Howland		15 P
7			Corn Pail			Safford		70 P
8			Nappies & Platter					05
9			Platter			Mrs Safford		20 P
10			4 Cups & 7 Saucers					10 P
11			Large Dishpan			Lady		30 P
12								

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towards

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From

towards

139

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Plates & Tray			Mrs Gifford		10 P
2			Campair			Dunfrit		10 P
3			Coast Bowl & Contents			Mrs Gifford		35 P
4			Cups & Ornament			Borden		10 P
5			Stone Pots			Lady		15 P
6			Cushion			Hinsfall		16
7			Pan & Contents			Gifford		05 P
8			Stone Pots			May Pina		10 P
9			Miscellany			Mrs Gifford		14 P
10			Dining Table			Lady		200 P
11			Drift Stone & Jar			John Gifford		185 P
12			Stone Parlor					15 P
1			Green Chair					00 P
2			3 chairs			J. Fernandez		75 P
3			Dark Rock Chair			May Pina		13 P
4			Red Chair Slat Back			Cash		175 P
5			Childs High Chair			Gifford		45 P
6			Cornseat & Back Rocker			Carr		120 P
7			Spindle Back Armchair			R. Howland?		825
8			Corn Seat Chair			Hinsfall		120
9			Oral Back Rocker			Hopkins		65 P
10			Oral Top Stand					60 P
11			Bench Settee			a Patten		25 P
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Childs Rocker					55 P
2			Spindle Back Chair					55
3			Tin Lantern			Not sold		40
4			Foot Stool					18 P
5			Foot Stool					10 P
6			Foot Stool			C Borden		10 P
7			Hammock					75 P
8			Wardrobe & Tub			Davis		80 P
9			Sewing Machine			R. Howland		25
10			2 Dressing Hinges			R. Howland		05
11			Weather House etc.			Brightman Jelster		70 P
12			Amosites Iron etc			Grief		65 P
1			Iron Bedstead			Gifford		25 P
2			Shells			C. Borden		100 P
3			Shark Jaw					35 P
4			Shells & Basket					10 P
5			Esquimaux Belt					10 P
6			Basket & Shells					10 P
7			Table Cloth			R. Howland		30
8			Quadrant			Bert Walcott		120 P
9			Clock			J. Fernandez		600
10			Shells 3 Amos			R. Howland		120
11			Shells 1 pair					40 P
12								2115

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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FROM

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From

towards

18 11

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	Differ					Swift		75 p
2	Basket							35 p
3	Carpail					Cohen		25 p
4	Fairy Plate							05 p
5	Borke							25 p
6	Sword							50 p
7	Small Stand							30 p
8	Basket + Beans					Cohen		50 p
9	Bedstead					Cohen		25 p
10	2 American Curios							45 p
11	2 Trifles							20 p
12	Basket					Jack Smith		30 p
1	Table					Mrs Sousa		15 p
2	Seung					Mr. Davis		50 p
3	2 Audio Jars							20 p
4	Basket Jugs etc							25 p
5	Sofa					R. Howland		25 p
6	Box					Mrs Lufford E. L.		10 p
7	Roller etc							05 p
8	Quadrant Case					Mr. Davis		50 p
9	Wickerbasket + Curios							25 p
10	Brooches + C							03 p
11	Grip							45 p
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	Box + Contents					J. Fernandez		25 p
2	Whistnot					J. Fernandez		30 p
3	8 Machine					J. Fernandez		25 p
4	Mirror					B. Chase		170 p
5	Miscellany					May Pine		25 p
6	Stand					Horifall		45 p
7	Mattress							105 p
8	Marble Top Stand					Lufford		2,30 p
9	Pitcher + Bowl					Horifall		160 p
10	Chest					Horifall		75 p
11	Stone					Bordeau		4,005 p
12	Bush Basket					J. Smith		40 p
1	Bolster					Mrs Lufford		70 p
2	Bedstead B. Walnut					Cohen		10 p
3	Pillows					J. Fernandez		40 p
4						Cohen		20 p
5	Cushion + C.					J. Fernandez		115 p
6	Cushion							10 p
7	Red Broad							55 p
8	Lamp							20 p
9	Red Broad							15 p
10	Curio							20 p
11	Chamber							20 p
12	Chamber					Lufford		20 p

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks.	day of	18
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

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From

towards

5

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Shells & C. Coral			Mrs Lifford		30 P
2			Feather Bed					1.10 P
3			Bone			Dr. Davis		05 P
4			Shanks Backbone			J. Chase		05
5			Table			A. Patten		30 P
6			Ironing Board & Brown			Agueda		1.0 P
7			Cupboard			Capt Chase		50
8			Box & Contents			Sam		05 P
9			Mattress			Capt Chase		50
10			Box & Contents Tools			Mrs Souza		1.0 P
11			Trunk			Agueda		05 P
12			Bedstead Crumpled & C.			May Pina		1.90 P
1			Iron Board Box					05 P
2			Box					05 P
3			Trunk & Contents					15 P
4			Whalebone & C.			Mrs Lifford		05 P
5			Cassess			Cohen		75 P
6			Parlor Stove			R. Howland		2.00
7			Clock			J. Smith		3.7 P
8			Bedding & C.			Sam		06 P
9			Parlor & C.			C. W. Lifford		05
10			C. Sine			Agueda		09 P
11			Shells			Mrs Lifford		10 P
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			B. Cage					10 P
2			Bella					06 P
3			Chair & Mat & C.					22 P
4								
5					19.75			7.10
6					11.83			
7					21.15			
8					24.10			
9					7.10			
10					83.93			
11								
12								
1								
2								
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4								
5								
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7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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towards

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From towards

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3								
4								
5								
6								
7								
8								
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11								
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1								
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9								
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Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
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4								
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7								
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Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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towards

10077

[illegible][illegible]

towards

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
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5								
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7								
8								
9								
10								
11								
12								

[illegible]

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12

[illegible]

From *Applus* towards *Muskulon*

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	<i>Sept 22</i>			<i>35</i>		<i>Sept 2</i>		<i>60</i>
2	<i>27</i>			<i>25</i>		<i>6</i>		<i>75</i>
3	<i>30</i>			<i>75</i>		<i>9</i>		<i>100</i>
4						<i>13</i>		<i>125</i>
5						<i>16</i>		<i>85</i>
6						<i>20</i>		<i>100</i>
7						<i>22</i>		<i>50</i>
8						<i>27</i>		<i>60</i>
9						<i>30</i>		<i>80</i>
10								<i>10</i>
11								<i>11</i>
12								<i>12</i>
1								<i>1</i>
2								<i>2</i>
3								<i>3</i>
4								<i>4</i>
5								<i>5</i>
6								<i>6</i>
7								<i>7</i>
8								<i>8</i>
9								<i>9</i>
10								<i>10</i>
11								<i>11</i>
12								<i>12</i>

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								<i>1</i>
2								<i>2</i>
3								<i>3</i>
4								<i>4</i>
5								<i>5</i>
6								<i>6</i>
7								<i>7</i>
8								<i>8</i>
9								<i>9</i>
10								<i>10</i>
11								<i>11</i>
12								<i>12</i>
1								<i>1</i>
2								<i>2</i>
3								<i>3</i>
4								<i>4</i>
5								<i>5</i>
6								<i>6</i>
7								<i>7</i>
8								<i>8</i>
9								<i>9</i>
10								<i>10</i>
11								<i>11</i>
12								<i>12</i>

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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towards

From

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	1892 day of	18
1			Aug 22	30		Aug 25		25
2			Sept 6	16		Sept 27		30
3			9	14		Oct 2		20
4			22	21				
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
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4								
5								
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7								
8								
9								
10								
11								
12								

[illegible]

H	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1						Summer Squash		
2						Aug 20		25
3						26		10
4						30		10
5						Sept 1		10
6						7		15
7						27		5
8								8
9								9
10								10
11								11
12								12
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12

[illegible]

From

Beans Butte

towards

Beans Goddard

1107

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	July 11		4 lbs	32		Aug 4 1 Pick	1892	40
2	13		5 lbs	40		4 1 Pick		100
3	18		43 lbs	178				100
4	21			84		7 Crops		100
5	25		53	159		1 1/2 Crops		100
6	27			100		1 1/2 Crops		50
7	Aug 1		5 8 1/2	175		1 Pick		25-
8	4		38	114				
9	18		50	52				
10	10		6	30				
11	15		6	18				
12	Sept 2		11	33				
1	6			30				
2	13		21	63				
3	20		14	42				
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1						Brook Line		
2						Aug 22 5 Picks		125
3						Sept 2 1/2 Berish		50
4								
5								
6								
7								
8								
9								
10								
11								
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1								
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Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

From

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	July	5	5 Bunch	125		July 21 one bunch		30
2		7	3 B & 1 Peck	375		25-6 bunches		18
3		11	4 Bunch	400		27 15		45
4		13	10 B & 3	1075		Aug 1 26		78
5		18	10	980		4 30		90
6			6	600				39
7		25	2 Peck	225		15-	13	60
8			2 $\frac{1}{2}$	63		16	20	5-5-
9	Aug 1	1		110		19	170	340
10		$\frac{1}{2}$		60		22	6	18
11			1 Peck	100		25-	4	12
12	15	1	20	75		27	6	18
1	16	2		130		30	5-	15
2						Sept 2	6	18
3						6	2	6
4						9	4	12
5						13	5-	15
6						16	3	10
7						20	3	9
8						22		18
9						25-		15
10						30		25
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
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7								
8								
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11								
12								
1								
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4								
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7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

Potatoes

towards

Sept

in seller

2 1/2
2 1/2
2 1/2

H.	K.	1/2 K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	June	30	1 Bushel	1.05		22 7 Bush		895
2			1	1.00		30 4 1/2		382
3			1/2	35				
4	July	18	1 Bush	2.15				
5		21	2 1/2	2.00				
6		25	4 1/2	3.22				
7		28	6	4.65				
8	Aug	1	8 1/2	4.26				
9		4	4	3.00				
10		15	2	1.40				
11		16	1	.70				
12		18	4	5.60				
1		19	2	1.30				
2		22	2 1/2 large	1.75				
3			1 do small	.40				
4		25	2 1/2	1.70				
5		30	3	2.16				
6			3 Phs on	.25				
7	Sept	2	3	2.00				
8		6	6 Bush	4.20				
9		9	6	4.20				
10		13	7 Bush	5.25				
11		16	8	6.00				
12		20	8	6.00				

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	1/2 K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

From

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	K.	K.	18
1	June 20			15		June 20		20		1
2	28			5		July 5		3		2
3	5			20		25		12		3
4				1		28		18		4
5						Aug 1		42		5
6						19		52		6
7						12		18		7
8						30		6		8
9						2		6		9
10						Sept 6		25		10
11						9		60		11
12						22		4		12
1										13
2										14
3										15
4										16
5										17
6										18
7										19
8										20
9										21
10										22
11										23
12										24

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	K.	K.	18
1	May 23/892									1
2	Onions				80					2
3	June 1		As		190					3
4	9		"		230					4
5	20		"		170					5
6	28				30					6
7	5				16					7
8	13				30					8
9	21				65					9
10	28				150					10
11	Aug 1		3 Becks		75					11
12										12
1										13
2										14
3										15
4										16
5										17
6										18
7										19
8										20
9										21
10										22
11										23
12										24

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

Thomas Kelly Detr

E. W. Crape Detr

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			E W Crape			May	8 Hours	
2	July		to Cash		100	28	Aug 3	6 Hours
3			19 Cash		200	11	4 10	30
4	Aug 4		to Cash		500	28	5 10	50
5						29	6 10	15
6						30	7 3	15
7						1	8 10	50
8						2	10 15	55
9						6		
10						7		
11						8		
12						9		
1						10		
2						12		
3						13		
4						15		
5						16		
6						17		
7						18		
8						19		
9						20		
10						21		
11						22		
12						23		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1								
2								
3								
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7								
8								
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5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *Edward Kelly Deter* towards *E W Crapo Deter*

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			To E W Crapo		75	April 6	1 Hour	6 15
2			April 25 8 hours		80			75
3			6 x		60			5.40
4			To Cash		50			
5			Turnips		20	May		
6			June 7					
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Thursday Aug 25 1892 Paid in full with
Balance in my favor of 60
E W Crapo

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			Edgar W Crapo Deter			Peator Smith Deter To		
2			to Peator Smith			E W Crapo		
3			to one load of Wood			May 11	5 Hours	75
4			To Plowing 6 hours			July 12	5 Hours	100
5			Upon 4 hours			16	1 1/2	30
6			July 20 to 5 hours 5 hours			23	4	80
7			21 to helping get up log			OCT 9	4 hours	60
8			3 hours					3.45
9			22 2 hours Baying					8.32
10								4.87
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

paid \$ 4.95

Laura

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

From

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	Oct	20	8			Oct 13	45	1
2		22	18			20	19	2
3	Dec	8	19			22	28	3
4						Nov 11	10	4
5						12	80	5
6						17	116	6
7						Dec 8	16	7
8								8
9								9
10								10
11								11
12								12
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	24		70	Grapes		Oct 9	Prunepking	10
2	28		15	24	13	13		10
3						22		42
4						Nov 11		40
5						17		86
6						Dec 8		45
7						Jan 17		24
8								8
9								9
10								10
11								11
12								12
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

From

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	Tornator	Sept				Claims		3.75-
2	11			6				
3	15			12				
4	24			26				
5	28			30				
6	Oct 1			183				
7	6			15				
8	9			20				
9	13			60				
10	20			28				
11	21			12				
12	22			25				
1				417				
2				10				
3				427				
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	Ballylowen					Cressschers		30
2	Aug 18			1.60		Aug 11		12
3	14			1.25		14		10
4	12			25		17		15-
5	24			60		24		38
6	28			35		July		28
7	Sept 2			53		Sept 28		24
8	8			25		Sept 2		11
9	11			15		8		15-
10	13			20		11		13
11	24			25		15		2
12	28			20		24		18
1	Oct 1			30		28		11
2	9			12				2.27
3				6.07				
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

towards

From

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	K.	K.	18
1	Berts	July 16		25		Corroto	4			25
2		24		30			8			30
3		27		30			11			15
4	Aug	1		28			14			20
5		4		15			17			21
6		8		32			24			27
7		11		24			28			20
8		14		24		Sept	2			37
9		17		15			8			26
10		24		26			11			15
11		28		30			15			10
12	Sept	2		30			28			20
1		8		25		Oct	9			5
2		11		15			20			18
3		24		10		Nov			30	2
4	Oct	1		8			11		30	
5		6		5		Jan	19		40	
6		9		10						
7		13		6						
8				3.98						
9	Nov	17		16						
10	Jan	19		8						
11										
12										

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	K.	K.	18
1	Apple					Cabbage	Aug 4			18
2	Sept			274			14			16
3		18		65	30		17			9
4		28		90			24			140
5	Oct	1		100			28			64
6		6		105		SEAM	2			18
7		9		95			8			12
8		13		148			11			60
9		20		183			15			20
10		22		91			24			24
11	Nov	4		60						34
12				1191		Oct	1			16
1		15		115			6			10
2	Dec	8		30			9			4
3							13			6
4							20			11
5										4.56
6										18
7										
8										
9										
10										
11										
12										

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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towards

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1			William R	Slocum	Dtr	To E W Grap		175
2			June 31					
3			July 27					75
4			Dec 9 1891		25			25
5								
6			Dec 13					25
7			Jan 29 1892					75
8			Feb 15, 17, 16, 17, 17, 17, 18, 15, 19					
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

[illegible]

H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	July	6	Beans		25			
2		9			1.00			
3		13			1.40			
4		20			1.10			
5		20			70			
6					1.62			
7		27			75			
8	Aug	1	Beans		3.22			
9		4			1.90			
10		8	do 49 lbs		1.62			
11		11			3.22			
12		14			1.50			
1		17			1.65	12.93		
2		24			3.98			
3		26			1.60			
4	Sept	2			4.29			
5		8			53			
6		11			30			
7					1070	1070		
8		24			40			
9		1			90			
10	Oct	8			51			
11		13			25	2.21		
12		20			18	12.91		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From

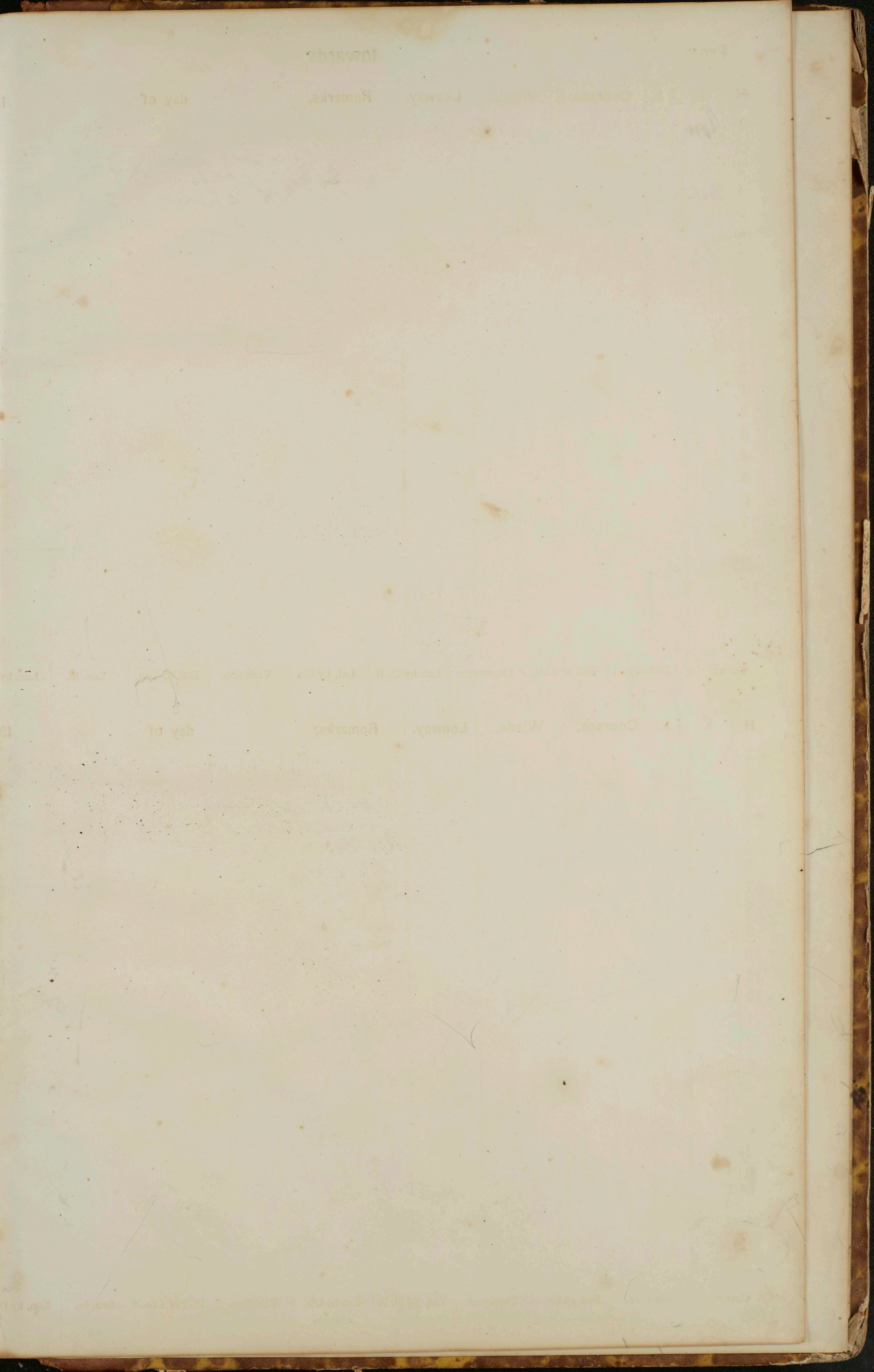
towards

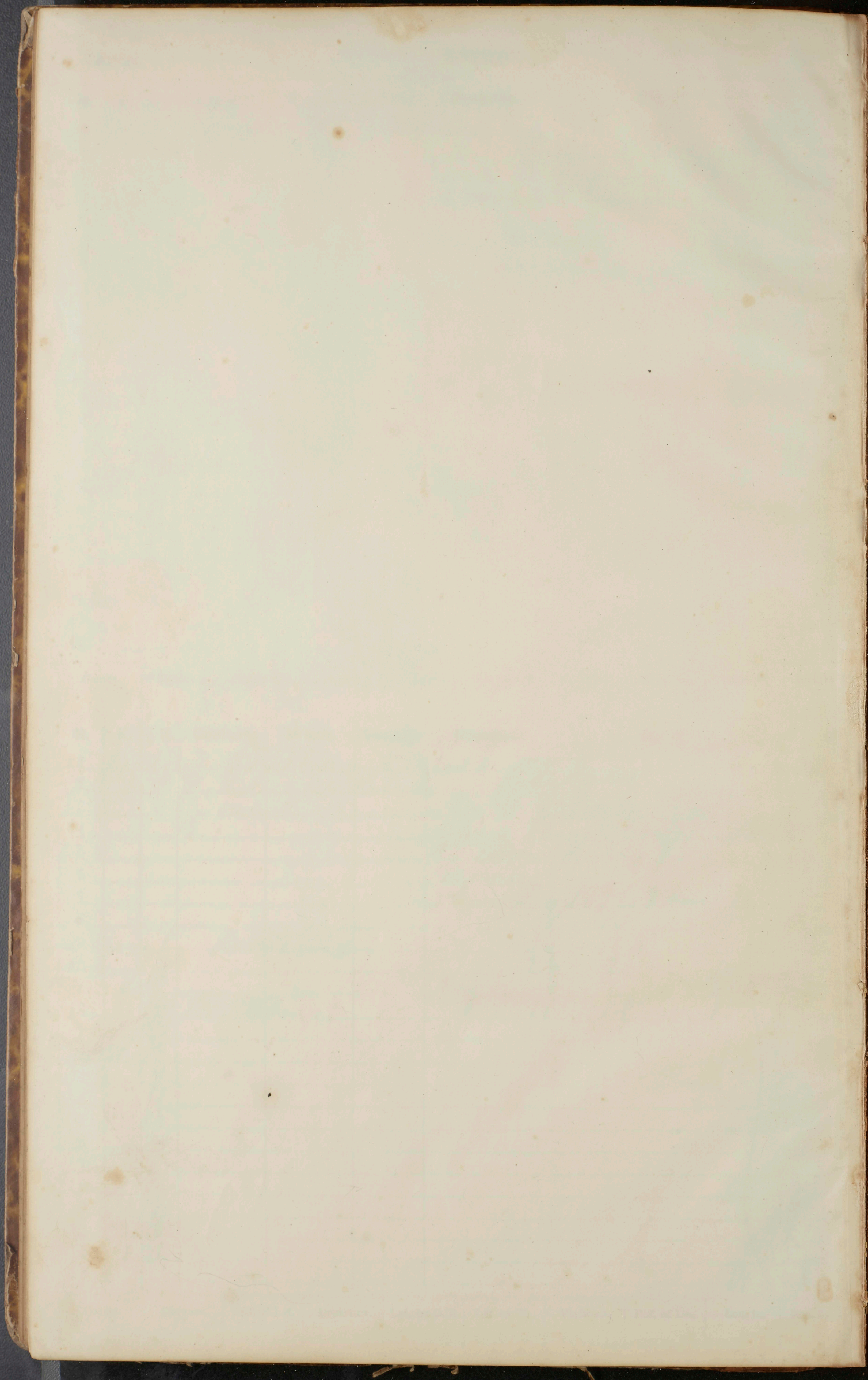
H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	June 11		onions	50	Little		50	10
2	18		"	1 28		Kelly Butter	8	10
3	22		"	25		To E W Grapes	18 20	10
4	July 13			1 80		April 25 6 hours	60	5
5	16			1 70			80	50
6				5.03		Peas To Cash	50 1 20	
7	Aug 11			15		Turnips	20 5 50	
8	24			70			3 10	
9	28			60			3.50	
10	Sept 2			48			2 20	
11	8			2.00			1 20	
12	11			3.45			17.20	
1	15			2.40			60	
2	20		11 Bush	1 00			60	
3	24			1 33			27 13	
4	28		5 1/2	5 50			4 50	
5	Oct 1			36		Aug 8	3 1 63	
6	6			25		11	12	
7	9			25		Dec 8	25	
8	20			13			75	
9	22			30			23.03	
10	Dec 8							
11				23.93				
12				1 60				
				25.53				
				1 60				
				27.13				

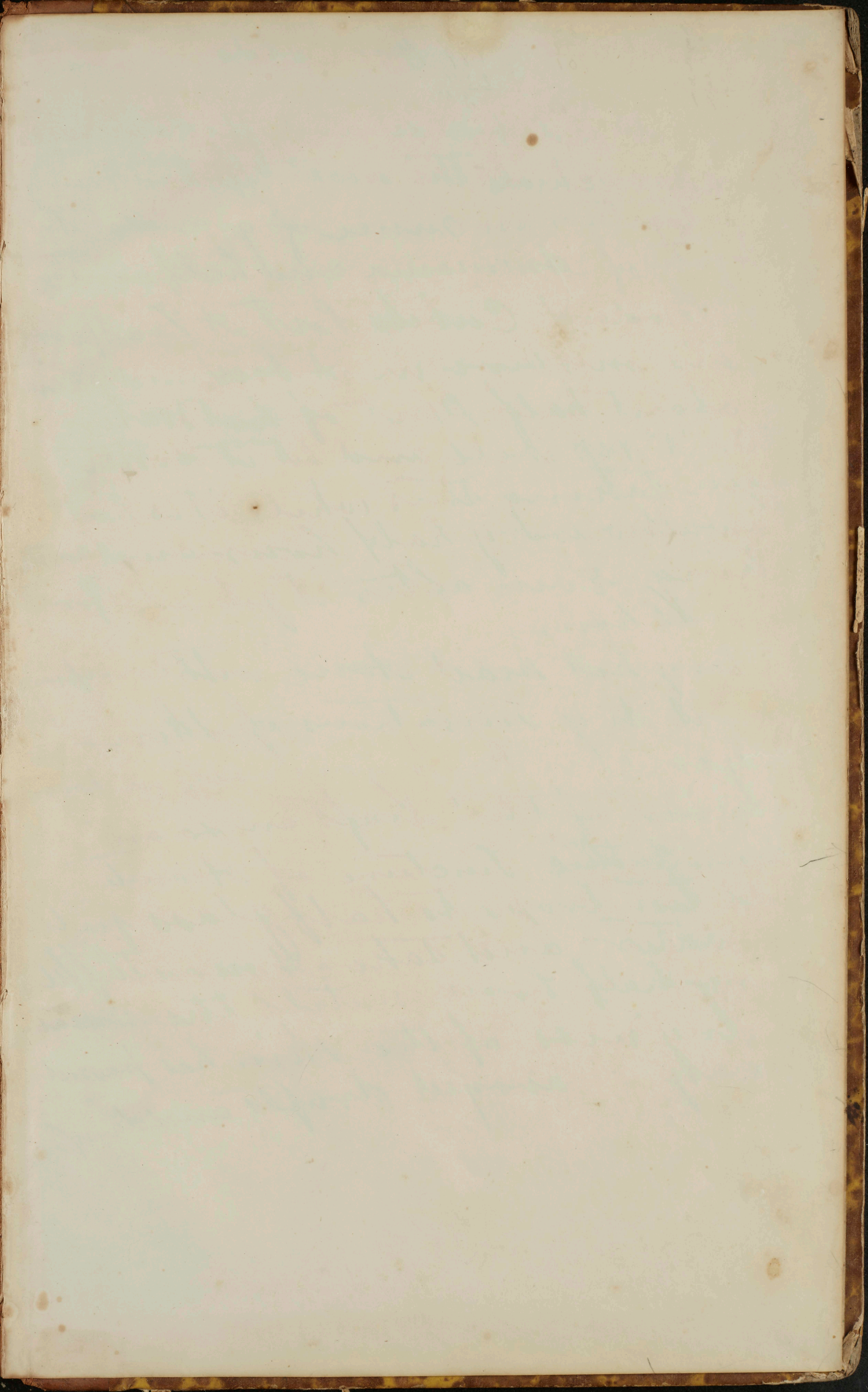
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by C
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H.	K.	$\frac{1}{2}$ K.	Courses.	Winds.	Leeway.	Remarks,	day of	18
1	July 3		Potatoes			1 Bush		100
2	9		1/2 Bush Potatoes					100
3			one Bush			Nov 11 1 Bush		25
4	13					April Edgar W Grapes	18 40	
5						To Edwin Kelly for	1.50	
6						Worth	1 23	
7						April 6 1892 1 Hour	15 95	
8						8 10	100 10	
9	Aug 1		Potatoes			16 8 1/2	85 1.03	
10	4					26 2	20 38	
11	8					Mag 6 2	20 25	
12	14		1/2 Bush Potatoes			11 1 1/2	15 50	
1	28						20	
2	Sept 1						40	
3	8						20	
4	11						40	
5	15						30	
6	24						46	
7	Oct 1						66	
8	7						20	
9	13						23	
10	20						44	
11	22						55	
12							14.63	

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob
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$$\begin{array}{r} 54 \\ 23 \\ 77 \\ 168 \\ \hline 91 \end{array}$$

$$\begin{array}{r} 84 \\ 49 \\ \hline 101 \end{array}$$

$$\begin{array}{r} 168 \\ 21 \\ \hline 189 \\ 224 \\ \hline 35 \end{array}$$

For Colds

If the Cold is deeper set and affects the throat
 and Branchials the most effective remedy
 mix together an Ounce of granulated
 Muriate of Ammonia and half ounce
 of of Powderd Cubeb's Put a Teaspoon
 of this mixture in a bowl and pour
 on about half Pint of hot Water
 stir it up well and let it settle
 begin taking this while it is hot
 A swallow every half hour and continue
 taking even after it gets cold for
 several hours

Dry hot head sore with creeping
 and dry sensations of skin
 if you can keep yourself indoors
 and out of the draft and so on
 Homoeopathic Tincture of Acarite
 add ten drops to half glass full
 of water and take a mouthful
 every half hour untill the sensation
 of dryness of the skin has passed
 away
 avoided drafts and dampness

